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FERTILIZER ANALYSES

Edited by H. B. McDONNELL, State Chemist

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ADDRESS

Chemical Department, Maryland Agricultural College

COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

The Maryland Agricultural College

Dr. H. B. McDonnell, Professor of Chemistry,—State Chemist.
L. B. Broughton, M. S., Assistant Professor of Chemistry.
T. D. Jarrell, B. S., Assistant Chemist.
A. C. Adams, B. S., Assistant Chemist.
Alfred Nisbet, Assistant Chemist.
Arthur M. Gibson, Assistant Chemist.
F. G. Baggs, Clerk.

The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from August, 1912, to January, 1913, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit. on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up of two or more samples taken at different places. No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia, " "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the schedule as given below.

Schedule for Calculating Comparative Values

In Mixed Fertilizers:	
For Nitrogen, calculated as Ammonia	20 cts. per pound
For Potash (K_2O), in forms free from muriate	6 cts. per pound
For Potash (K_2O), as muriate or kainit	5 cts. per pound
For Available Phosphoric Acid	6 cts. per pound
For Insoluble Phosphoric Acid	2 cts. per pound
For Insoluble Phosphoric Acid when from rock	1 ct. per pound
In Dissolved Rock:	
Available Phosphoric Acid	4½ cts. per pound
Insoluble Phosphoric Acid	1 ct. per pound
In Tankage:	
For Nitrogen, calculated as Ammonia	15 cts. per pound
For Phosphoric Acid	3 cts. per pound
In Ground Bone:	
For Nitrogen, calculated as Ammonia	20 cts. per pound
For Phosphoric Acid	3 cts. per pound

The "Comparative Values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use. They will be found to be not far from the prices for which fertilizers may be obtained at Baltimore, for cash. In making comparisons at other points freight from Baltimore should be added.

It should be noted that plant food costs more in low grade or "cheap" fertilizers than it does in high grade goods. Thus a 1-5-1 fertilizer (1 per cent of ammonia, 5 per cent of available phosphoric acid and 1 per cent of potash) will cost more than half as much as a 2-10-2 fertilizer, though it only contains half as much plant food. The demand for "cheap" fertilizer causes low grade material to be at a premium, even when less efficient and less available than the same amount of actual plant food in the higher grade goods.

Farmers are advised to buy 16 per cent dissolved rock or acid phosphate, when possible. Do not expect to get the 16 per cent goods at the same price paid for the 14 per cent, however. The higher grade will cost about $1 per ton more. The cheapest filler is the soil in the field and the cheapest mixing machine is the harrow.

Low grade mixed fortilizers should be avoided, such as fertilizer guaranteed to contain ¼ per cent Ammonia, 6 per cent Available Phosphoric Acid and 1 per cent of Potash. Such a fertilizer could be made as follows: 50 lbs. Ground Fish, 750 lbs. Dissolved Rock and 40 lbs. Muriate of Potash to the ton; this would necessitate the use of 1160 lbs. of filler in each ton.

In practice, however, such a fertilizer would be made of materials of low grade, as garbage tankage, kainit, etc., and would not require so much filler.

Avoid the "cheap" low grade fertilizers if you would avoid filler.

"EXTRACTS FROM THE NEW FERTILIZER LAW WILL BE FOUND ON PAGES 30-31."

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	American Agricultural Chemical Co., N. Y., N. Y.											
25369	Acme Grain & Grass Compound.	Windy Hill	1.09	1.00	4.06	4.00	.92	.....	8.90	8.00	$19.47	$17.60
24900	Big Crop Phosphate	Baltimore	.....	.....	5.04	5.00	.62	.....	7.83	8.00	12.21	12.20
25216	Dead Shot Phosphate	Reisterstown	.58	.50	2.02	2.00	.70	.....	8.62	8.00	14.96	13.60
25440	Excelsior Alkaline Bone	Baltimore	.....	.....	5 30	5.00	.50	.....	12.24	10.00	16.42	14.00
25144	Fine Ground Bone	Smithsburg	3.17	3.00	.....	.....	*26.86	*22.88	.....	.....	28.80	25.73
25348	Fish, Bone & Potash	Baltimore	1 95	2 00	3.04	3.00	1.60	.....	6.21	6.00	18.93	18.20
25074	Gem Alkaline Phosphate	Hampstead	.....	.....	3.33	3.00	.50	.....	6.47	6.00	11.95	8.40
25441	Ideal Corn Grower.	Annapolis	1.04	1.00	4.36	4.00	1.12	.....	8.54	8.00	19.22	17.60
25145	Imp. Wheat and Clover Prod.	Smithsburg	1.18	1.00	2.59	2.00	.68	.....	12.02	12.00	22.00	20.40
25515	Pure Raw Bone	Cumberland	4.33	4.50	.....	.....	*21.65	*21.51	.....	.....	30.31	30.91
25442	Royal Alkaline Bone	Baltimore	.....	.....	4.26	4.00	.50	.....	10.64	10.00	13.94	13.00
25146	Special Potash Mixture	Paramount	1.14	1.00	7.64	7.00	1.12	.....	9.18	9.00	23.67	21.80
25443	Special Tomato Fertilizer	Annapolis	1.04	1.00	4.56	4.00	1.07	.....	8.29	8.00	19.10	17.60
25386	Square Deal Phosphate	Middletown	2.01	2.00	4 22	4.00	1.42	.....	8.40	8 00	22.91	21.60
24923	Super-Phosphate 16%	Baltimore	.....	.....	.....	.....	.30	.....	16.50	16.00	14 91	14.40
25075	Top Notch Phosphate	Hampstead	2.01	2.00	5.75	5.00	1.10	.....	8.45	8.00	24.37	22.60
	A. A. C. Co. (Canton) Balto., Md.											
25147	Baker's Dissol'd S. C Phosphate	Smithsburg	.....	.....	.....	.....	.65	.....	14.02	14.00	12.75	12.60
25286	Baker's Fish Guano	Baltimore	2.03	2.00	2.17	2.00	1.37	.....	8.26	8 00	20.75	19.60
25148	Baker's Spec. Wh't. Corn & Gr.	Smithsburg	1.08	1.00	2.36	2.00	1.10	.....	8.67	9.00	17.52	16 80
25349	C. C. C. Special Compound	Baltimore	2.37	2.50	6.34	6.00	1.72	.....	8.23	8.00	26.39	25.60
24996	Harrow Brand Crop Grower	Baltimore	.96	1.00	1.14	1.00	1.17	.....	8.07	8.00	15.13	14.60

25217	Resurgam Guano	Reisterstown	1.06	1.00	4.04	4.00	1.05	.....	8.54	8.00	18.95	$17.60
25149	Soluble Phosphate & Potash	Smithsburg	.....	.....	2.20	2.00	.40	.....	10.57	10.00	11.79	11.00
	A. A. C. Co. (Detrick) Balto., Md.											
25370	Dissolved S. C. Phosphate	Windy Hill	.....	.....	.....	.....	.95	.....	14.02	14.00	12.81	12.60
25243	Imperial Compound	Baltimore	1.16	1.00	1.92	2.00	1.32	.....	7.96	8.00	16.64	15.60
25063	Kangaroo Komplete Kompound	Silver Spring	2.12	2.00	3.83	3.00	1.22	.....	7.81	8.00	22.17	20.60
25244	P. & B. Special Fertilizer	Baltimore	.....	.....	3.14	3.00	.62	.....	12.02	12.00	14.08	13.80
25328	Phos. & Potash Mix. 16 & 4	Baltimore	.....	.....	2.38	2.00	.62	.....	10.86	11.00	12.27	11.90
25134	Soluble Phosphate & Potash	Pocomoke City	.....	.....	2 07	2.00	.45	.....	10.05	10.00	11.21	11.00
24975	Special Potash Mixture	Parkton	1.04	1.00	7.57	7.00	.87	.....	9.51	9.00	23.49	21.80
24976	Standard Potash	Parkton	1.55	1.50	5.88	5.00	1.45	.....	6.12	6.00	20.00	18.20
25203	Victory Alkaline Bone	Pocomoke City	.....	.....	4.93	5.00	.60	.....	11.93	12.00	15.79	15.80
	A. A. C. Co. (Lazaretto) Balto., Md.											
25444	Ammoniated Phosphate	Baltimore	1.02	1.00	2.12	2.00	.90	.....	8 60	8.00	16.88	15 60
25018	Dissolved Phosphate	Baltimore	.....	.....	.....	.....	.60	.....	13.87	14.00	12.60	12.60
25329	Dissolved Phosphate & Potash	Baltimore	.....	.....	2.32	2.00	.62	.....	10.50	10.00	11.89	11.00
25465	Forsythe & Linthicum Mixture	Ellicott City	2.56	2.25	4.18	4.00	3.97	4.50	9.48	9.00	27.39	25.60
25150	H. G. Dissolved Phosphate	Smithsburg	.....	.....	5.19	5.00	.47	.....	10.02	10.00	14.30	14.00
25135	H. G. Dis. Phosphate & Potash	Pocomoke City	.....	.....	5.47	5.00	.55	.....	11.61	12.00	16.03	15.80
24997	Retriever Animal Bone Fertilizer	Baltimore	2.27	2 25	4.03	4.00	1.10	4.50	11.49	9.00	27.34	25.60
25375	Special Ammoniated Compound	Hampstead	1.31	1.25	3.30	3.00	1 35	.....	9.17	9.00	20 08	18.80
25019	Special Wheat & Grain Fert	Baltimore	1.01	1.00	4 30	4.00	1.30	.....	8.07	8.00	18.54	17.60
25475	Tomato Compound	Baltimore	1 55	1.50	5.18	5.00	1.50	.....	6.12	6 00	19.32	18.20
25503	Wheat, Corn & Grass Grower	Baltimore	.60	.50	2.32	2.00	1.07	.....	7.57	8.00	14.23	13.60
	A. A. C. Co. (Maryland) Balto., Md.											
25151	Alkaline Phosphate	Paramount	.....	.....	2.95	3.00	.70	.....	12.03	12.00	13.92	13.80
25287	Special Compound	Baltimore	1.86	2.00	9.32	10.00	1.32	.....	8.63	8.00	27.65	27.60
	A. A. C. Co. (Nickerson) Easton, Md.											
25445	Acid Phosphate	Baltimore	.....	.....	.....	.....	.37	.....	14.68	14.00	13.28	12.60
25446	Dissolved Bone & Potash	Baltimore	.....	.....	5.52	5.00	.60	.....	12.17	12.00	16.59	15.80
25476	English Mixture	Baltimore	1.08	1.00	2 12	2.00	1.40	.....	8.04	8.00	16.65	15.60
	A. A. C. Co. (Packers Union) Rutland, Vt.											
25236	Universal Fertilizer	Princess Anne	1.18	1.00	4.28	4.00	1.12	.....	8.17	8.00	19.25	17.60
	A. A. C. Co. (Reese) Balto., Md.											
25350	High Grade Potash Mixture	Baltimore	.....	.....	5.40	5.00	.72	.....	12 51	12.00	16.80	15.80
25447	Special Crown Phos. & Potash	Baltimore	.....	.....	1 62	2.00	.52	.....	12 09	12.00	12 60	12.80

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	A. A. C. Co. (Susquehanna) Balto., Md.											
25376	Crop Grower	Hampstead	1.16	1.00	1.02	1.00	1.00	.....	7.46	7.00	$15.01	$13.40
25494	Standard Ammoniated Phos	Baltimore	2.12	2 00	2.02	2.00	1 12	.....	8.19	8.00	20.78	19.60
25194	Standard	Hillsboro	.96	1.00	1.09	1.00	.77	.....	7.81	7.00	14.61	13.40
25477	Standard Grain & Grass Prod	Baltimore	.....	.....	3.16	3 00	.62	.....	12.08	12.00	14.15	13.80
25245	Standard H. G. Phos. & Pot	Baltimore	.....	.....	5.47	5 00	.87	.....	12.07	12.00	16.50	15.80
25448	Standard Sol. Bone & Pot	Baltimore	.....	.....	2 04	2.00	.55	.....	10.02	10.00	11 17	11 00
25273	Superior Rock Phosphate	Whiteford	.....	.....	.....	.....	.87	.....	14.31	14.00	13.05	12.60
	A. A. C. Co. (Tygert Allen) Phila., Pa.											
25049	Standard Brand Phosphate	Pocomoke City	2.05	2.00	2.15	2.00	1.17	.....	8.03	8.00	20.46	19.60
25508	Star Soluble Phos. & Potash	Baltimore	.....	.....	1.86	2.00	1.60	.....	10.36	10.00	11.50	11.00
	A. A. C. Co. (Wheeler) Rutland, Vt.											
25288	Bone & Potash	Baltimore	.....	.....	3.63	5.00	.72	.....	11.66	12.00	14.26	15 80
25136	Bone & Potash	Pocomoke City	.....	.....	2.96	3.00	.50	.....	12.49	12.00	14.30	13.80
25484	Royal Wheat Grower	Baltimore	1.01	1.00	2 08	2 00	1.02	.....	8.27	8 00	16.45	15 60
25432	Wheat & Clover Fertilizer	Baltimore	.....	.....	2.40	2.00	.17	.....	10.24	10.00	11 65	11.00
	A. A. C. Co. (Zell) Balto., Md.											
25079	Ammoniated Super-Phosphate	Taneytown	2.01	2.00	2.06	2.00	1.15	.....	8.80	8.00	21 12	19.60
25377	Dissolved Phosphate	Melrose	.....	.....	.....	.....	.55	.....	14.45	14 00	13.12	12 60
25449	Economizer Phosphate	Cumberland	1.18	1.00	2.06	2.00	.92	.....	8.02	8.00	16.77	15.60
25080	Electric Phosphate	Taneytown	.....	.....	2.17	2.00	.62	.....	10.30	10.00	11.56	11.00

25351	Hustler Phosphate	Baltimore	1.03	1.00	3.30	3.00	1.47	.....	9.02	9.00	18.83	17.80
25081	Little Treasure	Taneytown	1.01	1.00	1.25	1.00	.75	.....	7 67	7.00	14.79	13.40
25509	Special Compound	Catonsville	3.02	3.00	4.38	4.00	2.37	.....	8.02	8.00	27.03	25.60
	Alexandria Fertilizer & Chemical	**Co., Alex., Va.**										
25387	Dissolved Acid Phosphate	Sharpsburg	.....	.....	.....	.....	.27	.....	14.46	14.00	13.06	12.60
	American Fertilizer Co., Balto., Md.											
24942	Bob White Fertilizer	Hancock	1 18	1.00	1.90	2 00	4 30	.....	8.72	9.00	18.80	16.80
25029	Champion Grain Grower	Motters	1.21	1.00	4.32	4.00	2.90	1.00	7.56	8.00	19 39	18.00
24943	Dissolved Bone & Potash	Hancock	.....	.....	2.10	2.00	1 55	.....	10.12	10.00	11.52	11.00
25495	Double Dissolved Bone & Potash.	Baltimore	.....	.....	4.18	4.00	2.17	1.00	10.26	10.00	13.84	13.20
25330	Double Extra Bone & Potash	Baltimore	.....	.....	5.78	5.00	1.52	1.00	12.36	12.00	17.20	16.00
25433	Excelsior Guano	Baltimore	2.17	2.00	a5.04	5 00	2.72	1.00	8.02	8.00	25.44	24.00
25310	Formula Wheat & Corn	Baltimore	.....	.....	4.86	5.00	1.77	1.00	10 71	10 00	14 85	14.20
24944	High Grade Acid Phosphate	Hancock	.....	.....	.....	.....	3.20	.....	14.29	14.00	13 50	12 60
25030	High Grade Acid Phosphate	Motters	.....	.....	.....	.....	1.07	1.00	16 29	16.00	14.37	14 60
25496	Prize Truck Guano	Baltimore	2.13	2.00	a10.76	10.00	2.35	1 00	8 14	8.00	32.14	30 00
25352	Special Compound Guano	Baltimore	.52	.50	2.42	3 00	1.30	1.00	7 61	7.00	14 15	13 80
25031	Special Formula	Motters	.52	.50	1 06	1.00	1 35	1.00	8.13	8.00	13 44	13.00
2494	Special Potash Mixture	Hancock	.....	.....	3 30	4.00	4.25	.....	9.30	8.00	12 52	11.20
25246	Special Super-Phosphate	Baltimore	.....	.....	2.78	3 00	1.50	1.00	6.07	6 00	8.54	8.60
	Armour Fertilizer Works, Balto., Md.											
25247	Acid Phosphate	Baltimore	.....	.....	.....	.....	1.55	.50	15.43	16.00	14.20	14.50
24998	Acidulated Bone Meal	Baltimore	1 84	2.00	.....	.....	*13 83	*11 00	.....	.....	15 66	14.60
25353	Ammoniated Bone with Potash.	Baltimore	2.47	3.00	2.36	2 00	2 07	.50	5.88	6.00	20.13	21.40
25248	Banner Brand	Baltimore	.....	....	8.58	8.00	57	50	9 54	10.00	17.28	17 10
25434	Bone Meal	Baltimore	3.03	3.00	.....	.....	*23.11	*22.50	.....	.....	25.99	25.50
25020	Claude Park's Fearless	Baltimore	.55	.50	2.45	2.00	65	.....	8.02	8 00	14 53	13 60
25406	Claude Park's Harvest Queen	Chestertown	1.57	2.00	4.22	4 00	1 45	.50	8.29	8 00	21.03	21.80
25407	Claude Park's Special Formula	Chestertown	1.83	2.00	4 86	5.00	1.57	.....	7 02	7 00	21.23	21.40
25249	Crop Grower	Baltimore	1.09	1.00	2 03	2.00	1 30	.50	7 55	8.00	15 97	15 80
25450	Farmers' Choice	Baltimore	84	1 00	3.20	3 00	.92	.50	9 25	9 00	18 03	18 00
25109	Fruit & Root Crop Special	Highland	2 06	2.00	5 41	5.00	1.65	.50	7.31	8.00	23 08	22 80
25195	Grain Grower	Massey.	1.79	2.00	2.09	2 00	.12	.....	8 36	8 00	19 33	19 60
25485	Potash Mixture.	Baltimore	.....	.....	4 04	3 00	.42	.50	8 89	6 00	12 12	8.50
25182	Phosphate & Potash	Easton	.....	.....	4 64	5.00	.62	.50	12 13	12.00	15 68	15.90
25669	Phosphate & Potash	Cecilton (J.A.P.)	.....	.....	4.69	5.00	.65	.50	11.61	12.00	15 27	15.90
25677	Phosphate & Potash	Rock Hall (F.A.C.).	.....	.....	5.10	5.00	.70	.50	12.20	12.00	16.22	15.90

a As Sulfate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Armour Fertilizer Works, Balto., Md.											
25250	Phosphate & Potash No. 1	Baltimore	.....	.....	2.07	2.00	.52	.50	9.82	10.00	$11.01	$11.10
24924	Raw Bone Meal	Baltimore	4.52	4.50	.....	.....	*22.47	*22.00	.....	.....	31.56	31.20
25678	Raw Bone Meal	Rock Hall (F.A.C.)	5.41	4.50	.....	.....	*21.88	*22.00	.....	.....	34.77	31.20
24925	Royal Ammoniated Bone	Baltimore	1.26	1.00	4.04	4.00	1.35	.50	7.59	8.00	18.73	17.80
24968	Special Mixture	Monrovia	2.83	2.00	3.92	3.75	4.65	5.00	10.59	11.00	29.81	26.95
25676	Special Mixture	Rock Hall (F.A.C.)	2.02	2.00	4.32	4.00	2.25	.50	9.26	11.30	24.41	25.76
25672	Special Mixture	Worton (W.M.S.)	1.47	2.20	4.56	4.00	1.77	.....	10.49	11.60	23.74	17.80
24970	Special Mixture	Pocomoke City	1.06	1.00	5.02	5.00	.95	.....	9.79	10.00	21.39	21.00
25408	Special Mixture	Fairlee	1.31	1.50	5.58	4.50	3.55	.....	6.17	10.00	19.64	22.50
24999	Star Phosphate	Baltimore	.....	.....	.....	.....	.70	.50	13.92	14.00	12.67	12.70
24902	Sure Crop	Baltimore	.....	.....	5.40	5.00	.40	.50	8.48	8.00	13.11	12.30
25451	Superior	Baltimore	1.13	1.00	7.07	7.00	1.02	.50	8.50	8.00	22.20	20.80
25378	Wheat, Corn & Oats Special	Hampstead	.89	1.00	1.12	1.00	.70	.50	7.37	7.00	13.80	13.60
25251	Wheat & Clover	Baltimore	.....	.....	4.95	5.00	.82	.50	10.05	10.00	14.16	14.10
	Atlantic Fertilizer Co., Balto., Md.											
25204	Arrow Brand Special	Snow Hill	1.08	1.00	4.44	4.00	.77	.....	8.02	8.00	18.69	17.60
25354	Dissolved Phosphate	Laurel	.....	.....	.....	.....	1.12	1.00	14.68	14.00	13.43	12.80
25331	Dissolved Phosphate	Baltimore	.....	.....	.....	.....	.72	....	15.06	16.00	13.69	14.40
25311	Farmers' Alkaline Mixture	Baltimore	.....	.....	2.16	2.00	.57	1.00	9.71	10.00	11.01	11.20
24971	Golden Grain Grower	Princess Anne	1.88	2.00	4.08	4.00	.60	1.00	9.27	9.00	22.96	23.20
25355	Gold Medal Superior	Baltimore	1.48	2.00	2.84	3.00	1.25	1.00	8.01	8.00	18.87	21.00

25312	High Grade Potash Compound	Baltimore	.....	.....	5.48	5.00	.87	1.00	11.61	12.00	16.10	16.00
25356	Powhatan	Laurel	1.96	2.00	5.16	5.00	.75	1.00	8.02	8.00	22.92	23.00
25137	Pure Raw Bone Meal	Rehobeth	4.52	4.50	.....	.....	*25.49	*23.00	.....	.....	33.37	31.80
25313	Royal Potato & Tomato Manure	Baltimore	1.93	2.00	4.50	5.00	.45	1.00	6.04	7.00	19.65	21.80
25486	Standard Compound	Baltimore	1.84	2.00	2.18	2.00	.47	1.00	9.01	8.00	20.54	20.00
25000	XX Special Compound	Baltimore	1.67	2.00	9 55	10.00	.62	1.00	8 83	8.00	27.08	28.00
	C. A. Baile & Co., Medford, Md.											
25084	Bone Phosphate No. 3	Medford	1.01	1.25	2.30	2.00	1.60	1.50	10.21	9 50	19.23	19.00
	Baltimore Fertilizer Co., Balto., Md.											
		Baltimore	.....	.....	.....	.....	.67	2.00	11.22	14.00	10.23	13.00
25021	Honest Acid Phosphate	Baltimore	2.15	2.00	2.64	2.00	1.37	.....	8 13	8.00	21.55	19.60
25001	Honest Ammoniated Bone	Baltimore	.....	.....	3.28	3.00	.32	.....	9.18	8.00	11.60	10.20
25110	Honest A. K. Bone	Gaithersburg	.27	.25	2 28	1 00	.30	.....	8.85	7.00	14 10	10.40
25371	Honest Bone Phosphate	Trappe	.....	.....	2.46	2.00	.57	.....	10 32	10.00	11.86	11.00
25002	Honest Bone & Potash	Baltimore	.87	1.00	2.52	1.00	1.25	.....	7 78	8.00	15.84	14.60
25379	Honest Crop Grower	Lineboro	1.23	1.25	2.22	3.00	.75	.....	9 23	10.00	18.52	20.00
25382	Honest Standard	Pocomoke City	1.60	1.00	4.50	4.00	1.80	1.00	7.14	7.00	20.19	16.80
25003	Honest Success	Baltimore	.29	.50	1.44	2 00	.70	1.00	11.60	8.00	16.80	14.00
25004	Old Honesty	Baltimore										
	Baltimore Pulverizing Co., Balto., Md.											
25252	Ammoniated Butchers' Bone	Baltimore	1.54	1.50	1.88	1.50	1.57	.....	9.17	9.00	19.67	18.30
25289	Farmers' Favorite Fertilizer	Baltimore	1.23	1.00	2.60	1.60	1.12	.....	6.15	5.50	15.35	12.20
25253	H. G. Wheat Compound	Baltimore	1.62	2.00	4.04	2.00	1 35	1.00	8.03	8.00	20 70	20 00
25254	Practical Fertilizer	Baltimore	.61	.50	2.46	2.00	.95	.....	8.52	8.00	15.50	13.60
25478	Pure Dissolved Animal Bone	Baltimore	1.93	2.00	.....	.....	.90	.....	13 27	12.00	24.00	22 40
25276	Wheat & Grass Compound	Bel Air	1.84	2.00	5.74	5.00	1.85	.....	7.14	8 00	22.41	22.60
	Baugh & Sons Co., Balto., Md.											
25005	Acid Phosphate	Baltimore	.....	.....	.....	.....	.35	.....	16 34	16.00	14.78	14 40
25668	Acid Phosphate	Earleville (E. N. C.)	.....	.....	.....	.....	.42	.....	17.26	16.00	15 61	14.40
25657	Acid Phosphate	Smithsb'g (M.K.H.)	.....	.....	.....	.....	.22	.....	16.65	16.00	15 03	14.40
24946	Ammoniated Soluble Alkaline	Hancock	.67	.50	1.96	2.00	.72	.....	7.57	8 00	14.01	13.60
25111	Animal Base & Potash Comp	Rockville	2.06	2 00	2.11	2 00	.95	.....	8.10	8.00	20 45	19 60
25274	Complete Animal Base Fertilizer	Fallston	2.13	2.00	5.48	5.00	1.05	.....	8 39	8.00	24.49	22.60
25112	Double Eagle $25 Phosphate	Rockville	2.27	2.00	1.17	1.00	1.37	.....	8 33	8.50	20.80	19.20
25152	Excelsior Guano	Hagerstown	1 19	1.00	3 88	4.00	.67	.....	8 07	8.00	18.59	17.60
25085	Export Bone with Potash	Middleburg	2.13	2.00	3.66	2.00	3.62	.....	7.11	11.00	22.16	23.20
25006	Fine Ground Bone	Baltimore	3.75	3.00	.....	.....	*17.18	*16.00	.....	.....	25.31	21.60
25275	Fish Mixture	Forest Hill	2.08	2.00	2.28	2.00	1.40	.....	7.96	8.00	20.71	19.60

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Baugh & Sons Co., Balto., Md.											
24947	General Crop Grower	Monrovia	1 13	1.00	1.15	1.00	.67	.....	8 27	8 00	15.86	14.60
25504	Grand Rapids High Grade Guano	Baltimore	2.29	3.00	3 60	3.00	1.32	.....	7 88	8.00	22.75	24 60
25007	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.37	.....	16.06	14.00	14.52	12 60
25153	High Grade Potash Mixture	Smithsburg	.....	.....	4 54	4.00	1.15	.....	10 02	10.00	13 79	13.00
25388	One Quarter Mixture	Lydia	1.96	1.75	3.12	3 00	3.17	.....	9.28	12.00	23.37	24.40
24948	Peninsula Grain Grower	Monrovia	1.13	1.00	3 01	3 00	1 05	.....	8 88	9 00	18.61	17.80
25008	Phosphate and Potash 10 & 8	Baltimore	.....	.....	9 87	8.00	.47	.....	10.02	10.00	18.98	17 00
25255	Phosphate and Potash 10 & 5	Baltimore	.....	.....	5 64	5.00	.72	.....	9.94	10.00	14.73	14.00
25205	Phosphate and Potash 12 & 5	Westover	.....	.....	5.27	5 00	.80	.....	11 79	12 00	16.04	15.80
25675	Phosphate and Potash 12 & 3	Mt. Airy (J. A. E.)	.....	.....	3.52	3.00	.57	.....	12.10	12.00	14.52	13.80
25272	Pure Bone & Muriate Potash Mix	Baltimore	3.41	3 00	4.88	5.00	*15.49	*15.00	.....	.....	27 81	26.00
25086	Pure Dissolved Animal Bone	Taneytown	2 71	2.50	.....	.....	1.22	.....	16.14	13.00	30.70	25.60
24949	Raw Bone Meal	Hancock	4 54	4.50	.....	.....	*21 52	*21.50	.....	.....	31.07	30 90
25674	Raw Bone Meal	Mt. Airy (J. A. E.)	4 52	4.50	.....	.....	*21.04	*21.50	.....	.....	30.70	30.90
24950	Soluble Alkaline Super-Phos	Monrovia	.....	.....	2.37	2.00	.70	.....	10.02	10.00	11.53	11.00
25154	Special Alkaline Super-Phos	Smithsburg	.....	.....	5.49	5 00	.80	.....	8.46	8.00	13.26	12.20
25009	Wheat Fertilizer	Baltimore	2.17	2.00	2.09	2 00	.57	.....	8 31	8.00	20.97	19.60
	Beck-Walker Co., Chestertown, Md.											
25409	Good Drilling 10 & 5	Chestertown	.....	.....	4.79	5 00	.75	.....	10.03	10.00	13.97	14.00
25410	Good Drilling 12 & 3	Chestertown	.....	.....	3.14	3.00	.64	.....	12.03	12.00	14.10	13.80

	N. T. Bennett, New Windsor, Md.											
25087	Butcher House Phosphate	New Windsor	1.26	.75	3.82	2 50	1.22	1.00	8 31	8.00	19.32	15.50
25088	Soluble Wheat Grower Phos	New Windsor	.78	.50	3.65	2.00	.67	2.00	8.37	7.00	17.08	13.20
	Berg Co., Philadelphia, Pa.											
25277	Pure Raw Bone, Fine	Fallston	3.92	b3 65			*22.78	*22.00			29 35	27.80
25278	S. B. M	Fallston	3.14	b3.65	6 06	6.00	2.90		7.76	8.00	29.09	30.20
	W. H. Bixler, Hagerstown, Md.											
25155	Bone Phosphate	Hagerstown	2.01	1 50	2.82	2 50	4.12		7.74	6.00	21 80	15.70
	Bryant Fertilizer Co., Alexandria, Va.											
25113	Dissolved S. C. Bone	Rockville					1.25	1.00	14.55	14.00	13.35	12.80
25064	High Grade Potash Mixture	Rockville			3.93	4.00	1 80	1.00	10.09	10 00	13.37	13.20
25114	Special Fish Mixture	Rockville	1.04	1.00	3.85	4.00	2 87	1.00	8.64	8 00	19.53	18.00
	H. Bryant's Son, Alexandria, Va.											
25115	Challenge Cropper	Darnestown	1.35	1.25	2.28	2.00	.92		8 02	8.00	17.67	16 60
25065	Empress Ammoniated Dis. Bone	Derwood	1.18	1.00	1.34	1 00	1 15		8.06	8.00	16.19	14.60
25116	Golden Grain Grower	Darnestown	2.03	2.00	2.10	2.00	.82		8 57	9 00	20.83	20 80
25117	High Grade Phosphate	Gaithersburg					.20		14 16	14 00	12 78	12 60
25357	New Method	Laurel	1.01	1.00	4 34	4.00	1.10		7 81	8.00	18.19	17.60
25118	Soluble Bone Phos. & Potash	Gaithersburg			4.91	5.00	.70		12.08	12.00	15.92	15 80
	Central Chemical Co., Hagerstown, Md.											
25156	Crescent	Paramount	1.11	1.00	3 30	3.00	.67		8 54	9.00	18 26	17.80
25157	Eastern Star	Paramount			3.71	4.00	1.85		9.85	10.00	12 95	13 00
25158	Majestic	Paramount			4.38	5.00	1 35		10.70	8.00	14 28	12 20
25682	Special Mixture	Hagerstown (M.W.)	1.71	2.00	6.88	7.00	.65		10 46	10.00	26.53	27.00
25159	Superior	Paramount	1.06	1 00	6.03	6.00	.67		8.32	8.00	20 52	19 60
25389	Valley Mixture	Spielman	1.93	2.00	2.20	2 00	.20		8 50	8 00	20.20	19 60
	Chesapeake Chemical Co., Balto., Md.											
25452	Dissolved Phosphate 14%	Baltimore					1.75		14.66	14.00	13 54	12.60
24977	Dissolved Phosphate 16%	White Hall					.52		16.49	16.00	14 94	14.40
25138	Raw Bone	Shelltown	4.81	4.50			*22.46	*22 00			32 72	31.20
	John L. Clark, Ellicott City, Md.											
25466	Pride of Dalton Fertilizer	Ellicott City	2.34	2.50	6.95	6.00	1.35	1.00	8.87	9.00	27.49	27.20
	H. Cope & Co., Lincoln University, Pa.											
25415	Acid Phosphate	Rising Sun					.47	1.00	16 80	14.00	15 21	12.80

*Total Phosphoric Acid.

b Nitrogen 3%—Ammonia 3.65%

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	H. Cope & Co., Lincoln University, Pa.											
25416	Queen of Elk Valley	Rising Sun	1.95	2.00	7.08	8.00	.70	2 00	7.08	5.00	$23.66	$22.80
25417	Wheat Grower & Corn Manure	Rising Sun	1.30	1.50	4.46	4.00	.82	2.00	8.30	5 00	19.95	16.80
	J. Cope & Co., Balto., Md.											
25418	Ammoniated Phosphate	Rising Sun	1.03	1.00	3.12	3.00	1.05	.....	8 02	8.00	17.28	16.60
25314	Potato and Tobacco Phosphate	Baltimore	1.18	1.00	8 01	7.00	.92	.....	10 38	10.00	25.56	23.00
25453	Wheat & Grass Special	Baltimore	1.02	1 00	.92	1.00	.99	.....	8.70	8.00	15.84	14.60
	L. E. P. Dennis & Son, Crisfield, Md.											
25237	Fish and Potash	Crisfield	1.83	1.65	3.86	3.00	1 05	.....	6.49	7.00	19.39	18.00
25238	Klondike Fish and Potash	Westover	1.18	1.00	3.04	3.00	1.37	.....	8.02	8.00	17.93	16.60
	J. W. Dorsey, Ellicott City, Md.											
25454	Mixture D	Baltimore	2.27	2.25	4 50	4.00	1.85	1.50	9.10	9.00	25.24	24.40
	Dudley & Carpenter, Balto., Md.											
25256	Special Wheat Mixture	Baltimore	.....	.....	3.04	3.00	.55	.....	12.02	12 00	13.97	13.80
	Edelen Bros. Balto., Md.											
25455	Special Wheat and Grain Mix	Baltimore	.87	1 00	2.26	2.00	.82	.....	9.73	9.00	17.75	16.80
	T. W. Eliason, Chestertown, Md.											
25479	Ammoniated Super Phosphate	Baltimore	1.72	1.50	2.28	2.00	2.02	1.00	9.17	9 00	20.97	19.20
	J. A. Englar, Linwood, Md.											
25089	Ammoniated Bone Phos. No. 1	Linwood	2.01	2 00	2.83	1.50	1.17	.....	9.19	9.50	22.37	20.90

25090	Ammoniated Bone Phos. No. 2..	Linwood.....	1.08	1.00	2.41	2.40	1.00	.....	10.46	9.80	19.68	18.16
	Enterprise Guano Co., Balto., Md.											
25358	Ideal Grain Grower.	Baltimore.....	.96	1.00	4.68	4.00	.50	.....	8.51	8.00	18.93	17.60
	Eureka Fertilizer Co., Perryville, Md.											
25419	Alkaline No. 2.....	Rising Sun.....	.....	.....	2.24	2.00	1.05	.....	9.87	10.00	11.33	11.00
25420	Corn & Potato Special..	Rising Sun.....	.92	1.00	2.80	3.00	1.90	.....	8.38	9.00	17.30	17.80
25421	Farmers' Favorite.....	Rising Sun.....	1.95	2.00	2.70	2.00	2.35	.....	8.30	8.00	21.40	19.60
25422	Fish & Potash.....	Rising Sun	.52	.50	.84	1.00	1.72	.....	10.27	8.00	15.93	12.60
25423	Grain & Grass Grower...	Rising Sun.....	.65	1.00	4.26	2.00	1.87	.....	6.37	8.00	15.25	15.60
25424	Super-Phosphate.....	Rising Sun.....	.....	.....	.....	.....	1.32	.....	15.56	14.00	14.26	12.60
	W. S. Farmer & Co., Balto., Md.											
25290	B. & P. Phosphate.....	Baltimore.....	.....	.....	2.04	2.00	.57	.....	10.75	10.00	11.83	11.00
25332	Clyde Brand	Baltimore..... ..	1.04	1.00	2.12	2.00	1.10	.....	8.21	8.00	16.57	15.60
25291	Dissolved S. C. Phosphate.....	Baltimore.....	.....	.....	.....	.....	.67	.....	14.82	14.00	13.47	12.60
25333	Empire Alkaline Phosphate.....	Baltimore.....	.....	.....	4.90	5.00	.52	.....	10.06	10.00	14.05	14.00
25022	Fish Mixture.....	Baltimore.....	2.05	2.00	2.02	2.00	1.37	.....	8.53	8.00	21.01	19.60
25183	Harvest Queen.....	Cambridge	1.38	1.25	3.19	3.00	1.00	.....	9.31	9.00	20.28	18.80
25050	Potato & Tobacco Phosphate....	Snow Hill	2.05	2.00	10.12	10.00	1.12	.....	8.65	8.00	29.15	27.60
25292	Pure Raw Bone.....	Baltimore	4.23	4.50	.....	.....	*21.70	*21.51	.....	.....	29.94	30.91
	Farmers' Fertilizer Co., Union Bridge, Md.											
25091	Bone Phosphate No. 1.....	Union Bridge.....	1.77	1.50	2.65	2.25	.35	.....	9.87	8.00	21.71	17.85
25092	Union Bridge Favorite.....	Union Bridge.....	1.38	1.00	2.86	2.00	.52	.....	9.68	8.00	20.21	15.60
	Farmers' Fertilizer & Feed Co., Westminster, Md.											
25093	Bone Phosphate No. 1.....	Westminster	2.41	2.00	2.95	3.00	.52	2.00	9.82	9.00	24.58	22.60
25094	Bone Phosphate No. 2.....	Westminster	2.06	2.00	2.85	3.00	.92	1.00	9.78	9.00	23.20	22.20
25095	Bone Phosphate No. 3	New Windsor.....	1.55	1.50	2.89	3.00	52	1.00	8.58	8.00	19.60	19.00
25096	Carroll Bone Phosphate.....	Westminster	78	75	2.49	2.00	.80	1.00	8.14	7.00	15.70	13.80
25097	High Grade Phosphate.....	Westminster	1.67	2.00	4.57	5.00	.67	1.00	12.53	11.00	26.56	26.60
25098	XX Bone Phosphate	New Windsor.....	1.08	1.00	3.02	3.00	.47	1.00	9.92	9.00	19.43	18.20
	Farmers' Fertilizer & Feed Co., Westminster, Md.											
25178	Bone & Potash	Salisbury.....	.96	1.00	4.54	5.00	.22	.....	11.74	10.00	22.56	21.00
25051	Fish Mixture.....	Salisbury.....	1.60	2.00	1.94	2.00	.72	.....	10.37	8.00	21.07	19.60
25052	General Crop Grower.....	Salisbury.....	1.21	1.00	1.92	2.00	.37	.....	11.15	10.00	20.29	18.00
	T. I. Fulks, Gaithersburg, Md.											
25126	Walker's Mixture	Gaithersburg.....	1.01	1.00	1.55	1.50	1.77	.....	9.85	9.00	18.12	16.30

* Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	German Kali Works, Balto., Md.											
25127	Kainit	Gaithersburg	.....	.....	13.45	12.00	.....	.....	.....	.....	.....	.....
	Griffith & Boyd Co., Balto., Md.											
24903	Accomac Trucker	Baltimore	2.78	5 00	3.69	5.00	.27	.....	11.14	6.00	28.29	32.20
24926	Fish, Bone and Potash	Baltimore	1.81	1.75	3 52	3.00	.32	.....	9.02	7.00	21.71	18 40
24927	Fruit and Root Compound	Baltimore	3.43	2.50	6.70	6 00	.87	.....	8 55	7.00	31.03	24 40
25218	Gem Phosphate	Sparks	.....	.....	2 17	3 00	3.92	.....	8.45	6 00	10.56	8 40
25257	Gilt Edge Crop Guano	Baltimore	2 13	2.00	8.94	10.00	62	.....	10 31	8 00	30.08	27 60
25258	Guano 7%	Baltimore	7.01	7.00	3.42	5 00	1 70	.....	4 85	5 00	37 96	39 00
25372	Harvest Queen	Windy Hill	.85	1.00	4 34	3.00	2.20	.....	7 38	9.00	17.48	17 80
24978	High Grade Acid Phosphate	Sparks	.....	.....	.....	.....	3 33	.....	14 03	14.00	13.30	12 60
25184	High Grade Acid Phosphate	Easton	.....	.....	.....	.....	1.75	.....	14 78	16 00	13.65	14 40
25010	Monarch Brand	Baltimore	.....	.....	3.31	5.00	4.05	.....	8.43	8.00	11 71	12.20
24904	Peerless Fertilizer	Baltimore	.61	.35	2.33	2.00	2.55	.....	8.85	8.00	16 41	13.00
25497	Pure Fine Ground Bone Meal	Baltimore	4 42	4.00	.....	.....	*17 60	*22.00	.....	.....	28.24	29.20
24906	Royal Potash Guano	Baltimore	1.59	1.00	4.28	4.00	1.65	.....	8.23	8.00	21 18	17.60
25511	Soft Ground Bone Meal	Baltimore	2.90	3.00	.....	.....	*13 17	*11.00	.....	.....	19.50	18.60
24905	Soluble Mixture 12 & 5	Baltimore	.....	.....	5.24	5.00	2 67	...	12 02	12.00	16.59	15.80
25467	Special Grain Grower	Baltimore	.....	.....	3.28	2.00	1.77	.....	9.72	10.00	12.18	11.00
25279	Special Guano	Fallston	2.13	2.00	5.72	5 00	2.07	.....	7.05	8.00	23.53	22.60
25206	Stable Manure Substitute	Pocomoke City	3.17	3.50	4 39	4.00	2.37	.....	5.39	5.00	24 49	24.00
25119	Valley Fertilizer	Sandy Spring	.96	.50	3.06	3.00	2.07	.....	8.16	8.00	17.52	14.60
24979	XX Potash Manure	Sparks	.....	.....	4.82	5.00	2.47	.....	10.28	10.00	14.56	14.00

	Griffith & Turner Co., Balto., Md.											
25487	Ammoniated Alkaline Plant Food	Baltimore	1.14	1.00	2.74	1.50	2.25	1.00	7.81	6.50	17.57	13.70
25498	Ammo'd Butchers' Bone Phos..	Baltimore	.96	1 25	2 52	1 50	2 17	.....	8.30	9.00	17.19	17.30
25488	Animal Bone Phosphate.....	Baltimore	1.91	2.50	2.28	1.50	2.50	....	8.24	10.00	20 81	23.50
25500	Soft Ground Bone.....	Baltimore	1.83	2.00	.....	.....	*24.80	*22.00	.....	.....	22.20	21.20
25489	Special Mixture.....	Baltimore	.73	.50	2.92	2.00	2 82	1.00	7.76	8.00	16 28	14.00
25501	Special Potato Mixture.....	Baltimore	.90	1.00	6.02	5.00	.95	.....	7.31	8.00	18 77	18.60
	Hampstead Fertilizer Co., Hampstead, Md.											
25099	Grain and Grass Grower.....	Hampstead.....	1.21	2.00	2.23	2.00	.40	.....	8.57	8.00	17.51	19.60
25380	Honesty.....	Hampstead.....	.89	1.00	2 38	2.00	.75	.....	8.56	8.00	16.51	15 60
25101	Standard.....	Hampstead.....	1 35	1.25	3.05	3.00	1 00	.....	10 30	10 00	21.21	20.00
25662	Standard.....	Glyndon (D. H. B.).	1.37	1.25	3 52	3.00	1.27	.....	9.68	10.00	21.13	20.00
	S. M. Hess & Bro., Philadelphia, Pa.											
25480	Ammoniated Super-Phosphate..	Baltimore.....	1.83	2.00	3 74	2.00	1.10	.....	8 96	8.00	22.25	19.60
24907	Fish & Potash Manure.....	Baltimore.....	2 01	2.00	3.15	3.00	1.22	.....	8 14	8.00	21.45	20.60
25259	Peerless Phosphate.....	Baltimore.....	.....	.....	5.18	5 00	.55	.....	12 28	12 00	16.34	15.80
24909	Soluble Phosphate.....	Baltimore.....	....	.....	..	.....	.95	.....	14.45	14.00	13.20	12.60
24910	Soluble Phosphate & Potash....	Baltimore.....	.....	.....	2.09	2.00	22	.....	10 83	10 00	11.88	11.00
24908	Special Compound.....	Baltimore.....	1.02	1.00	4.03	4.00	1.47	.....	8.11	8.00	18.43	17.60
25293	Wheat & Grass Manure.....	Baltimore.....	1 03	1.00	2.03	2.00	1.27	.....	8.01	8.00	16.27	15.60
	W. H. Hood, Mt. Airy, Md.											
25231	Special Mixture.....	Mt. Airy.....	1.02	1.00	2.11	2.00	3.12	.....	10 25	9 00	19.74	16.80
	Home Fertilizer and Chemical Co., Balto., Md.											
25435	Eclipse Dissolved Phosphate....	Baltimore.....	.....	.....	.....	.....	.37	1.00	16.70	16.00	15.10	14.60
25436	Farmers' Choice.....	Baltimore.....	1 13	1 00	4 54	4.00	.90	.....	7.53	7 00	18 46	16.40
25260	Riosa Tobacco Compound.....	Baltimore.....	2.88	3.00	3 82	3.00	.52	.....	8.90	8.00	26.23	24.60
	Horsey, Roe & Co., Greensboro, Md.											
25239	One, Eight & Four.....	Greensboro.....	1 16	1.00	4.69	4.00	.80	1.75	8.38	8.00	19.71	18.30
	Hubbard Fertilizer Co., Balto., Md.											
25232	Alkaline 12 & 5.....	Sykesville..	.....	.....	5.04	5 00	1.55	.....	11.82	12.00	15.99	15.80
24980	Climax Phosphate.....	Parkton.....	1.08	1.00	4 45	4.00	1.67	.....	5.93	7.00	16 56	16.40
25294	Columbia Gem.....	Baltimore.....	.58	.50	2.64	2.00	1.72	1.00	8 58	8.00	15.95	14.00
24981	Farmers' I. X. L.....	Parkton	1 89	2.00	2.54	2.00	2.12	.....	7 86	8 00	20.38	19 60
25219	Jewel Phosphate	Fowblesburg.....	1.27	1.25	6.10	5.00	1 42	1.00	6 87	8 00	19.99	20.00
24951	Oriental Phosphate.....	Hancock	1.18	1.00	3.06	2.00	1.42	2.00	7.78	8.00	17.69	16.40

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Hubbard Fertilizer Co., Balto., Md.											
25066	Phosphate 14%	Silver Spring	.....	.....	.....	.....	1.02	1.00	15.27	14 00	$13.94	$12.80
25067	Phosphate 16%	Silver Spring	.....	.....	.....	.....	.70	.....	16.96	16.00	15.40	14.40
25383	Special Mixture	Pocomoke City	.....	.....	6.10	4.00	1.65	1 00	9.49	10.00	14.97	13 20
25120	Warranted Raw Bone	Clarksville	4.68	4.50	.....	.....	*20.64	*22.00	.....	.....	31.10	31 20
	M. P. Hubbard & Co., Balto., Md.											
25264	Celebrated Phosphate	Baltimore	1 93	2.00	2.94	2 00	.37	.....	8.03	8 00	20.45	19 60
25261	Excelsior Super-Phosphate	Baltimore	1 11	1.00	2 72	2.00	.62	1.50	8.53	8.00	17.65	16.20
25053	Farmers' Acme	Marion Station	1 06	1.00	3.90	4 00	.27	1.00	8.77	8.00	18.77	18 00
24911	Harvest King Phosphate	Baltimore	1.26	1.00	3.37	3.00	.50	1.00	9 30	9 00	19.77	18.20
25490	Havana Special	Baltimore	2.49	3.00	3 14	3 00	.57	.....	9 49	8.00	24.72	24 60
25161	Old Economy	Walkersville	.53	.50	3 19	2.00	.32	1.00	8.16	8.00	15.23	14.00
25456	Soluble S. C. Phosphate	Baltimore	.....	.....	.....	.....	.17	1.00	13.78	14 00	12.43	12 80
25054	Special Potato & Tomato Fert	Marion Station	1.93	2.00	5 09	5.00	.35	.....	7.14	7.00	21.52	21.40
25384	XXXX Rock and Potash Mix	Pocomoke City	.....	.....	4.60	5.00	.30	.....	12.18	12.00	15.62	15.80
	Lister's Agricultural Chemical Works, Newark, N. J.											
25032	Atlas Brand Alkaline Fertilizer	New Midway	.....	.....	5.07	5.00	.57	.....	12.36	12.00	16.30	15.80
24912	Bone Meal	Baltimore	3 26	3.25	.....	.....	*25 31	*22.88	.....	.....	28.23	26.73
25162	Buyers' Choice Acid Phosphate	Chewsville	.....	.....	.....	.....	.50	.....	14.66	14.00	13.29	12.60
25334	Cel. Gr. Bone & Tank, Acidulated	Baltimore	3.46	3.25	.....	.....	*11 81	*12.00	.....	.....	20.93	20 20
25437	Corn and Potato Fertilizer	Baltimore	1.96	2.00	3.12	3 00	1.42	.....	8 19	8.00	21.36	20.60
25359	Crescent Crop Manure	Laurel	2.10	2.00	4.80	5.00	1.75	.....	8.01	8.00	23.51	22.60

25033	Dissolved Phosphate and Potash	New Midway	.....	.....	2.18	2.00	.45	.....	9.69	10.00	10 99	11.00
25315	Golden Sheaf	Baltimore	.52	.50	1.90	2.00	.92	.....	8.25	8.00	14.25	13.60
25295	"G" Brand	Baltimore	.94	1.00	4.27	4.00	1.02	.....	8.58	8 00	18.68	17.60
25163	Harvest Queen	Chewsville	1.71	1.50	2 13	2.00	.57	1.00	9.73	9.00	20.88	19.20
25164	High Grade Acid Phosphate	Chewsville	.....	.....	.....	.....	82	.....	15.68	16.00	14.27	14.40
25034	Potash Mixture	New Midway	.....	.....	4.48	5.00	.12	.....	9.14	8.00	12.73	12.20
25438	Special Crop Producer	Baltimore	1.11	1.00	1.26	1.00	.80	.....	7.41	7.00	14.91	13.40
25335	Special 10% Fertilizer	Baltimore	2.01	2.00	10 68	10.00	1.20	.....	8.27	8.00	29.12	27.60
24982	Stand. Pure Super-Phos. of Lime	White Hall	3.19	3.00	2 25	2.00	1.60	....	8.92	9.00	26.35	24.80
25361	U. S. Super-Phosphate	Laurel	1.38	1.25	2 52	2 00	1.35	.....	8.50	8.00	18 78	16.60
25360	Wheat & Rye Fertilizer	Laurel	2.12	2.00	2.26	2 00	1.45	.....	8.02	8.00	20.94	19.60
	J. W. McAbee, Bel Air, Md.											
25280	Crop Grower	Whiteford	1.53	1.50	2 06	2 00	1.35	.....	8 20	8.00	18.56	17.60
25281	High Grade Fertilizer	Bel Air	1 89	2.00	3.96	4.00	1 42	.....	8.35	8.00	22.11	21.60
	McComas Bros., Belair, Md.											
25282	High Grade Fertilizer	Bel Air	1 62	1.50	a4.82	5.00	2.32	.....	6.02	6.00	20.41	19 20
	T. A. Maloney, Dayton, Md.											
25023	Special Wheat & Grass Mix	Baltimore	2.08	2.00	5.40	5.00	1.25	1.50	8.34	9.00	24.23	24 40
	D. B. Martin Co., Phila., Pa.											
25165	Acid Phosphate	Woodsboro	.....	.....	.....	.....	.77	.....	14.69	14.00	13.37	12.60
24928	Acid Phosphate	Baltimore	.....	.....	.....	.....	.50	.....	16.03	16.00	14.53	14.40
25425	Claremont Vegetable Grower	Leslie	2.59	3.00	4 84	5 00	1.50	.....	7.27	7.00	24.52	25.40
25468	Clark's Standard Bone	Ellicott City	1.89	2.00	2 50	3.00	2.25	.....	9.01	9.00	21.77	21.80
24929	Crop Producer	Baltimore	1 50	1.25	.....	.....	2.50	.....	9.52	10 00	18.42	17.00
25316	Dissolved Organic Compound	Baltimore	1 04	1.25	2.10	2.00	1.15	.....	8.25	9.00	16.62	17.80
24913	Early Truck and Veg. Grower	Baltimore	3 91	4 00	7.21	8.00	.72	.....	8.83	6.00	33.74	31.20
24930	One, Eight & Four	Baltimore	1.09	1.00	3.81	4.00	1.95	.....	7.73	8.00	18.23	17.60
24931	Potash & Soluble Phosphate	Baltimore	.....	.....	2.67	5.00	.57	.....	12.02	12.00	13.60	15.80
25207	Pure Bone Meal	Westover	4.66	4.50	.....	.....	*22.54	*21.00	.....	.....	32.16	30.60
25390	Pure Dissolved Animal Matter	Sharpsburg	2 01	2 00	.....	.....	3.85	.....	9.63	12.00	21.14	22.40
25233	Pure Ground Bone	Sykesville	2.15	2.00	.....	.....	*13 41	*22.90	.....	.....	16 65	21.74
24914	Special Compound	Baltimore	1.72	2.00	5.36	5.00	1.07	.....	9.02	8.00	23.49	22.60
24932	Special Potato Manure	Baltimore	1.21	1.00	3.55	5.00	1.87	.....	8.01	8.00	18.75	18.60
	F. Mehring, Keymar, Md.											
25035	Acid Phosphate	Walkersville	.....	.....	.....	.....	.40	.....	16.85	16.00	15.25	14.40

*Total Phosphoric Acid.

a A Sulfate.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	F. Mehring, Keymar, Md.											
25102	Dissolved Raw Bone	Keymar	2.17	2.00	.....	.....	1.30	1.00	14.35	14.00	$27.02	$25.20
25103	Emmert's Half & Half	Keymar	.97	.75	2.05	2.00	.80	1.00	14.14	13.00	23.22	21.00
25104	General Crop Grower	Keymar	1.09	1.00	2.07	1.50	3.27	1.00	11.30	10.00	21.30	17.90
25036	Potash & Phosphoric Acid	Walkersville	.....	.....	2.04	2.00	.17	.....	15.31	12.00	15.85	12.80
25037	Twenty-Six Dollar Phosphate	Walkersville	1.86	1.50	2.06	1.50	1.05	1.00	12.93	11.00	25.44	21.10
	Miller Fertilizer Co., Balto., Md.											
25068	Acid Phosphate	Germantown	.....	.....	.....	.....	1.87	.50	14.69	14.00	13.59	12.70
24933	Acid Phosphate	Baltimore	.....	.....	.....	.....	.80	.....	15.54	16.00	14.15	14.40
25220	Ammoniated Dissolved Bone	Sparks	2.54	2.00	2.59	2.00	.50	.....	8.74	8.00	23.44	19.60
25651	Buyers' Mixture	Still Pond (E.F.C.).	1.26	1.00	4.32	4.00	.50	.....	8.25	8.00	19.46	17.60
25362	Clinch Phosphate	Baltimore	.....	.....	2.30	2.00	.67	.50	9.39	10.00	10.88	11.10
25166	Club Brand	Hagerstown	.67	.50	2.15	2.00	.75	.50	8.18	8.00	14.95	13.80
25221	Farmers' Profit	Sparks	1.16	1.00	5.07	5.00	.45	.....	8.76	8.00	20.40	18.60
25336	Ground Bone	Baltimore	4.91	4.50	.....	.....	*24.04	*21.00	.....	.....	34.06	30.60
25167	Harvest Queen	Hagerstown	1.38	1.25	2.87	2.75	.65	1.50	9.18	9.00	19.67	19.15
25222	Hustler Phosphate	Sparks	1.19	1.00	1.13	1.00	.95	...	8.20	8.00	16.11	14.60
25411	M. B. S	Chestertown	1.02	1.00	2.82	3.00	1.15	.50	7.79	7.00	16.71	15.60
25168	Pimlico	Hagerstown	1.88	2.00	9.62	10.00	.87	50	8.03	8.00	27.13	27.80
25139	Potash Mixture	Rehobeth	.....	.....	5.89	5.00	.72	.50	10.09	10 00	15.11	14.10
25283	Potato and Vegetable Grower	Forest Hill	2.20	2 00	4 24	4.00	1 02	...	8.07	8.00	23.13	21.60
25208	Standard Phosphate	Snow Hill	3.07	3 00	3.28	3.00	1.22	.....	8.36	8.00	26.08	24.60
25223	W. G. Phosphate	Sparks	.77	.50	1.40	1.00	.47	.....	7.74	7.00	13.96	11.40

	V. W. Nicodemus, Monrovia, Md.											
24952	Sullivan's S. S. S.	Monrovia	2.06	2.00	2.08	2.00	.90	.....	8.14	9.00	20.45	20.80
	Nitrate Agencies Co., New York.											
25262	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.85	1.00	15.25	14.00	13.90	12.80
	G. Ober & Sons Co., Balto., Md.											
25317	Dissolved Animal Bone	Baltimore	3.29	3.00	.....	.....	3 05	.....	10.67	10.00	27.18	24.00
25024	Dissolved Bone Phosphate	Baltimore	.....	.....	.....	.....	.08	.....	15.34	14.00	13.83	12.60
25318	Dis Bone Phos. and Potash	Baltimore	.....	.....	2.14	2.00	.70	.....	10.33	10.00	11.58	11.00
25196	Farmers' Mixture	Denton	1.23	1 00	2.17	2 00	.77	.....	9.19	9.00	18.43	16.80
25296	Fish and Potash Fertilizer	Baltimore	2.13	2.00	2.24	2.00	.60	.....	9.97	9.00	22.96	20.80
24934	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.25	.....	17.46	16.00	15.76	14.40
25363	Independent Ammo. Super-Phos.	Baltimore	1.13	1.00	1.46	1.00	1.75	.....	8.07	8.00	16.36	14.60
25297	Ox Head Mixture	Baltimore	56	.50	1.35	2.00	.52	.....	8.10	8.00	13.52	13.60
25055	Pure Bone Meal	Pocomoke City	3.01	3.00	.....	.....	*26.25	*22.00	.....	.....	27.79	25.20
25011	Pure Raw Bone Meal	Baltimore	4.78	4.50	.....	.....	*22.14	*21.00	.....	.....	32.40	30.60
25225	Sol. Ammon. Super. Phos. Lime.	Upperco	2 04	2.00	2 23	2.00	1.02	.....	8.08	8.00	20.50	19.60
25128	Special Plant Food	Rockville	2 06	2.00	5.31	5.00	.35	.....	9.15	9.00	24.67	23.80
25129	Stag Guano	Rockville	1.01	1.00	4.02	4.00	.50	.....	8.62	8.00	18.60	17.60
25025	Standard Potash Compound	Baltimore	.....	.....	5 42	5.00	.57	.....	13.12	12.00	16.94	15.80
	Patapsco Guano Co., Balto., Md.											
25319	Alkaline Plant Food	Baltimore	.....	.....	5 14	5 00	.47	.....	8.31	8.00	12.71	12.20
25364	Baltimore Soluble Phosphate	Baltimore	.....	.....	2 14	2 00	.67	.....	11.32	11.00	12 46	11.90
24983	Blood, Bone and Potash	Cockeysville	.58	.50	2 01	2 00	.87	.....	7.83	8.00	14 08	13 60
25121	Coon Brand Guano	Washington Grove	1.06	1.00	3 01	3 00	.90	.....	9.21	9 00	18 66	17.80
25226	Enterprise Phosphate	Sparks	.....	.....	5 01	5 00	.92	.....	10.28	10.00	14.44	14.00
25013	Grain and Grass Producer	Baltimore	1.09	1.00	4 10	4 00	.92	.....	8.52	8.00	19.05	17.60
25659	Peninsula Potash Mixture	Cecilton (E. J. D.)	.....	.....	5.26	5.00	.40	.....	12 51	12 00	16.60	15.80
25337	Phospho Potash	Baltimore	.....	.....	3.10	3.00	.55	.....	6.18	6 00	8 77	8.40
24984	Pure Dissolved S. C. Phosphate	Cockeysville	.....	.....	.....	.....	37	.....	15.22	14 00	13 77	12 60
25661	Pure Dissolved S. C. Phosphate	Carmich'l (T. H. D.)	.....	.....	.....	.....	.80	.....	14.25	14.00	12.99	12.60
24985	Sea Gull Guano	Cockeysville	1.09	1.00	1.01	1.00	1 15	.....	8 02	8 00	15 45	14 60
25209	Soluble Phosphate and Potash	Snow Hill	.....	.....	2 18	2.00	.37	.....	10.07	10 00	11 31	11.00
25365	Spec. Wht Comp. Ani. Bone Base	Baltimore	2.27	2.25	3 14	2.50	5.47	5.00	8 75	9.00	24.91	24.30
	Peerless Fertilizer Co., Chestertown, Md.											
25320	Ford's Ideal	Baltimore	.53	.50	5.42	5.00	.57	.....	9.90	8 00	19.65	16 60

*Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Peerless Fertilizer Co., Chesterto	**wn, Md.**										
25321	Pennington's Mixture	Baltimore	.65	.50	4.12	3.00	.45	.....	9.40	8.00	$18.18	$14 60
25412	Special Formula	Chestertown	1.76	2.00	5.56	4.00	2 00	.....	8.03	8.00	23.04	21 60
	Piedmont-Mt. Airy Guano Co., Bal	**timore, Md.**										
25391	Gower's Half & Half	Williamsport	.87	.75	2.78	2.00	.57	.....	14.25	13.00	23.59	20.60
24986	Levering's Ammoniated Bone	Cockeysville	1.06	1.00	3.10	3.00	.40	.....	9.40	9.00	18.78	17 80
25684	Levering's Ammoniated Bone	Cordova (A. H.)	.97	1.00	4.04	3.00	.83	.....	9.02	9.00	19.07	17.80
25130	Levering's Harvest Queen	Buck Lodge	1.11	1.00	1.73	2 00	.65	.....	9 26	8.00	17.54	15.60
25069	Levering's Standard	Washington Grove	1.59	2.00	3.09	3.00	.35	.....	9.10	8.00	20.51	20 60
25652	Muriate of Potash	Fed'ralsb'g (O.B.S.)	.....	.....	51.12	48.00	.....	.....	.....	.....	.....	.....
25122	Peerless Phosphate	Derwood	1.50	1.00	1.93	1.50	.60	2.00	8.58	8.00	18.47	15 90
25263	Piedmont Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.20	.....	14.10	14.00	12.73	12.60
25366	Piedmont Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.25	.....	16.44	16.00	14.85	14 40
25227	Piedmont Bone Meal	Owings Mills	4.18	4.00	.....	.....	*24.10	*21.00	.....	.....	31.18	28.60
25265	Piedmont Dis. Animal Bone	Baltimore	1.81	2.50	.....	.....	.67	.....	13.77	10 00	24.03	22 00
25131	Piedmont Economy	Boyds	.46	.25	2.04	2.00	.52	.....	11.85	10.00	13.31	15.00
25105	Piedmont Farmers' Favorite	New Windsor	.82	1.00	4 20	4.00	.35	.....	8.88	8.00	18.28	17.60
25457	Piedmont Fish Guano	Baltimore	2.05	2.00	2.44	2 00	.45	.....	8.94	8.00	21.55	19.60
25367	Piedmont Perfection Guano	Baltimore	1.84	2.00	5.12	5.00	.97	.....	7 84	8 00	22.28	22.60
24987	Piedmont Pure Raw Bone Mix	Cockeysville	1.47	1 25	2.38	2.00	2.50	.....	8 08	8.00	18.96	16.60
25197	Piedmont Special Potash Mix	Cordova	.....	.....	4.93	5.00	.20	.....	10.35	10.00	14.29	14.00
25683	Piedmont Special Potash Mix	Cordova (A. H.)	.....	.....	4.58	5.00	.30	.....	10.09	10.00	13.72	14.00
25106	Pdmt. Standard Dis. Bone Phos.	New Windsor	1.08	1.00	2.01	2.00	.47	2.00	10.46	10.00	19.07	18.80

25026	Piedmont Success	Baltimore	.36	.25	5.42	5.00	.35		9.31	9.00	18.17	16.80
25266	Piedmont Wheat Compound	Baltimore			4.06	5.00	.32		12.50	12.00	15.37	15.80
25234	Special Wheat & Grass Phos	Mt. Airy	2.01	2.00	2.33	2.00	1.25	2.00	8.70	8 50	21.31	21.00
25172	Star Bone and Potash	Hagerstown			5.13	5.00	.45		11 93	8.00	15.96	12.20
	Plant & Land Food Co., Balto., Md.											
25481	U-Tree-t-Me Plant Food	Baltimore	1.67	1.75	a4.68	6 00	.15		12.08	11.00	26.86	27.40
	Pollock Fertilizer Co., Balto., Md.											
25198	Crop Invigorator	Cordova	1.13	1.00	4 20	4.00	.80		8.56	8.00	19.31	17.60
25458	Dissolved Phosphate and Potash.	Baltimore			4 24	4.00	.57		10.02	10.00	13.37	13.00
24935	Owl Brand Guano	Baltimore	.53	.50	1.67	1.50	.57		7.10	7.00	12.54	11.90
24936	Special Potato and Tobacco Fert.	Baltimore	2.01	2.00	4 63	4.00	1 52		7 84	8 00	22.69	21.60
25173	Special Wheat Grower	Lime Kiln	1.35	1.00	2.46	2.00	1 22		8.01	8.00	17.96	15.60
25299	Star Alkaline Phosphate	Baltimore			5 30	5.00	.57		12.20	12 00	16.39	15.80
25300	Sun Guano	Baltimore			6.52	6.00	.62		10.31	10 00	15.92	15 00
25298	Superior Corn and Tomato Fert.	Baltimore	1.02	1.00	2.38	2.00	1.12		8.20	8.00	16.75	15.60
24937	Victor Brand Phosphate	Baltimore			1.10	1.00	.40		9.66	9 00	9 87	9.10
	Ramsburg Fertilizer Co., Frederic	**k, Md.**										
24953	Alkaline Phosphate	Monrovia			2.50	2.00	2.77		10 87	10.00	12 83	11.00
25518	Ammoniated Bone Phosphate	Washington Grove	1 03	1.00	2 20	2.00	2.82		10.89	10.00	20.52	18.00
25392	Excelsior Half and Half	Frederick	94	1.00	2.06	1.00	2 97		10 44	10.00	19.54	17.00
24954	Excelsior Plant Food	Monrovia	1.89	2.00	2.14	2.00	3 20		9 28	9.00	22.12	20 80
24955	Old Virginia Compound	Monrovia	1.45	1.21	4 54	4 00	2 55		8.43	8.00	21.48	18.44
25671	Old Virginia Compound	Barth'lws (W.E.M.)	1.60	1.21	5 04	4 00	2.90		8 47	8.00	22.76	18.44
25132	Queen	Buck Lodge	.70	.50	1.01	1.00	2.87		11.24	8.00	18 45	12.60
25393	Snyder's Money Saving Phos	Keedysville	.80	.75	5.12	5 00	77		8.02	8.00	18.25	17.60
25174	Special Rock and Potash	Lewistown			3.96	5.00	1.80		11.68	10.00	14 83	14 00
25175	Super-Phosphate	Lewistown					2.77		14 30	14.00	13.42	12.60
24956	William's Wheat & Grass Fert.	Monrovia	1.16	1.00	2.55	2 00	2.67		9 84	8.00	20 07	15.60
25670	William's Wheat & Grass Fert.	Barth'lws (W.E.M.)	1.02	1.00	2 03	2.00	2.82		10 70	8.00	20.08	15.60
	Rasin-Monumental Co., Balto., Md.											
25160	Hammond's Old Lib'ty Am. Bone	Walkersville	1.19	1.00	3 90	4.00	2.27	1.00	7.02	7.00	17.99	16.80
25169	†M. & C's Md. Alkaline Phos	Woodsboro			2.19	2.00	1 80	1 00	9 91	10.00	11 47	11.20
25170	†M. & C's Maryland Plow Brand.	Woodsboro	1.14	1.00	2.74	2.00	2.12	1 00	8.38	8 00	18.21	16 00
25171	†M. & C's Maryland Sun Guano	Woodsboro	.53	.50	1.17	1.00	1.27	1 00	8.32	8 00	13.78	13 00
24938	Rasin's Acid Phosphate	Baltimore					1.07	1.00	15.44	14.00	14.11	12.80
25123	Rasin's Acid Phosphate	Barnesville					.77	1.00	17 21	16 00	15.64	14.60
25185	Rasin's Bone and Potash	Easton			2.15	2.00	2.12	1.00	10.03	10.00	11.60	11.20

*Total Phosphoric Acid. a As Sulfate. † Miller & Cramer, Woodsboro, Md.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Rasin-Monumental Co., Balto, Md.											
25070	Rasin's Empire Guano	Silver Spring	2.25	2.00	2.59	2.00	2.55	1.00	7.40	8.00	$21.49	$20 00
24957	Rasin's Half and Half Mixture.	Hancock	.....	.....	2.92	3 00	8 00	.....	6.12	6.00	10.03	8 40
25039	Rasin's H. G. Bone and Potash.	Graceham	.....	.....	5.13	5.00	1.52	1 00	12.55	12 00	16.73	16 00
25014	Rasin's I. X. L. Fertilizer	Baltimore	1.04	1.00	3.05	3.00	1 80	1.00	9.39	9.00	19 20	18 00
25180	Rasin's National Crop Comp	Princess Anne	1 01	1.00	4.53	4.00	2.35	1.00	8.57	8 00	19.79	18 00
25179	Rasin's Pure Raw Bone.	Princess Anne	5.02	4.50	.....	.....	*23.08	*22.50	.....	.....	33.93	31 50
25038	Rasin's Royal Fish, Bone & Pot.	Emmitsburg	2.01	2.00	2.83	3.00	2.55	1.00	8.08	8.00	21.59	21 00
25133	Rasin's Royal Fish, Bone & Pot.	Washington Grove	2.27	2.00	3.41	3.00	3.00	1 00	7.09	8 00	22.20	21 00
25176	Rasin's Royal Mixture	Walkersville	.55	.50	1.15	1.00	1.25	1.00	7.80	8.00	13.21	13.00
24915	Rasin's Special Bone and Potash	Baltimore	.....	.....	4.34	5.00	.97	1.00	11.40	10.00	14 79	14.20
25469	Rasin's Spec. Fish and Pot. Mix.	Laurel	1.86	2.00	3.16	3.00	2.45	1.00	6.58	6.00	19.48	18.60
24972	Rasin's Special Formula	Pocomoke City	.....	.....	3.09	3.00	1.05	1.00	6.54	6.00	9.19	8.60
24939	Rasin's Vegetable Special	Baltimore	2.04	2.00	a10.86	10.00	2.05	1.00	8.02	8.00	31.63	30 00
25040	Rasin's Wheat, Corn & Oats Mix.	Graceham	.72	.50	2.07	2.00	1.47	1.00	8.67	8.00	15.94	14 00
24958	Rasin's Wheat Potash Mixture.	Hancock	.....	.....	4.66	5.00	3.67	.....	8.56	8.00	13.09	12 20
25071	Rasin's XXX Fertilizer.	Silver Spring	2.02	2.00	a4.95	5.00	3.57	1.00	7.51	8.00	24.46	24 00
25394	‡Special Grain and Grass Prod	Big Spring	1.16	1.00	a5.44	5.00	2.22	.....	12.40	12 00	26.94	24 40
25072	William Penn Crop Grower	Germantown	1.25	1.00	1.22	1.00	1.60	1.00	8.02	8.00	16 48	15 00
	Reindollar Co., Taneytown, Md.											
25107	Economy Fertilizer	Taneytown	1.08	1.00	4.02	4.00	1.82	.....	8.86	8.00	19.70	17 60
25041	Rock and Potash	Emmitsburg	.....	.....	2.48	2.00	.60	.....	9.90	10.00	11.51	11.00
25108	Rock and Potash No. 2	Taneytown	.....	.....	5.47	5.00	.47	.....	10.02	10.00	14 58	14.00

	F. S. Royster Guano Co., Balto, Md.											
25228	Acid Phosphate	Phoenix					.60		14.74	14 00	13.39	12.60
25338	Ammoniated Potash Compound	Baltimore	1.14	1.00	7.88	7.00	.82	.50	9.57	9.00	24.25	22.00
25210	Bumper Crop Phosphate	Pocomoke City			4.76	5.00	.67	.50	8.89	8.00	12.89	12.30
25199	Champion Crop Compound	Perryman	2.01	2.00	5.21	4.00	1.15		8.04	8.00	23.36	21 60
24988	Dissolved Bone	White Hall	2.56	2.50			1.62	.50	12.71	12.00	26.14	24 60
25042	Farmers' Delight Fertilizer	Rocky Ridge	.61	.50	2.34	2.00	1.45	.50	7.17	8.00	13.96	13.80
24916	Harvest King Fertilizer	Baltimore	2.29	2.00	2.40	2.00	1.87	.50	7.57	8.00	21 39	19.80
24989	High Grade Acid Phosphate	White Hall					.15	.50	16 17	16 00	14.58	14 50
25301	High Grade Acid Phosphate	Baltimore					.45	50	16.62	16.00	15 05	14.50
25043	Imperial Formula	Rocky Ridge	1.06	1.00	4.87	4.00	.90	.50	7.45	8.00	18.4	17.80
25667	Imperial Formula	Detour (H. C. V.)	1.14	1.00	4.47	4.00	1 55	50	8.25	8.00	19.55	17 80
24917	Peerless Grain & Grass Grower	Baltimore			2.22	2.00	.64	.50	10.02	10.00	11.37	11.10
25309	Pure Raw Bone Meal	Baltimore	4.66	4.50			*21.54	*21.50			31.56	30.90
25517	Seeding Down Special Fert	Ellicott City	1.04	1.00	3.62	3.00	1.20	.50	9.08	9.00	19.16	18.00
25186	Superior Potash Mixture	Dover Bridge			5.55	5.00	.85	.50	12.20	12.00	16.70	15.90
	Scott Fertilizer Co., Elkton, Md.											
25426	Potato Grower	Childs	1.67	2.00	9.30	10.00	2.72		9.66	8.00	28.66	27.60
25427	Pure Ground Bone	Rising Sun	4.37	4.00			*22.58	*21.50			31.03	28.90
25428	Soluble Phosphate and Potash	Childs			5.32	5 00	1.70		12.53	12.00	16.94	15.80
25666	Soluble Phosphate and Potash	Cecilton (E. J. D.)			4 88	5 00	1.67		12.90	12.00	16 82	15.80
25429	Sure Growth Super-Phosphate	Leslie	2.05	2.00	3.84	3.00	2.22		8.38	8.00	22.99	20.60
25430	Tip Top and Potash	Childs			2.46	2.00	2.30		10.32	10.00	12.21	11.00
25431	Wheat and Grass Grower	Rising Sun	.61	.50	2.68	2.00	1.52		7.63	8.00	14.89	13.60
	Standard Guano Co., Balto., Md.											
25187	Alkaline Mixture	Easton			1.89	2.00	.37	1.30	9 35	10 00	10 38	11 26
25395	Beckley's Bone Mixture	Half Way	1.35	1.50			1.22		14.45	14.00	23.23	22.80
25396	Beckley's Wheat and Clover	Half Way	1.11	1.00	3.26	4.00	1.25		11.66	12.00	22.19	22.40
25027	Extra H. G. Acid Phosphate	Baltimore					.85		15.66	16.00	14.26	14.40
25100	Farmers' Champion	Westminster	.77	.50	2.09	2.00	1.27		8.10	8.00	15.40	13.60
24990	Great Grain Grower	Hydes	1.57	1.00	3.31	4.00	1.35		8 48	8.00	20.31	17.60
25177	Ideal Guano	Walkersville	2.15	2.00	3.89	4.00	1.05	1.00	9.35	9.00	24.13	23.20
24991	Keystone Brand	Hydes	1.54	1.00	2.16	4.85	1.60		7.55	8.00	18.02	18.45
25322	Special Alkaline Compound	Baltimore			4.05	4.00	2.60		7.73	10.00	11.53	13.00
25650	Special Mixture	Westm'st'r(B.F.S.)			3.90	4.00	2.80		12.26	11.20	15.49	14.08
24992	XX Potash Mixture	Hydes			4.72	5.00	.25		12.58	12.00	16.09	15.80

‡ G. G. Smith's Brand, Big Spring, Md.

*Total Phosphoric Acid.

a As Sulfate.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	W. H. Street & Co., Fallston, Md.											
25344	Ammoniated Dissolved Bone....	Baltimore	1.55	1.50	2.32	2.00	.55	1.50	9.68	9.00	$20.36	$19.40
	Superior Guano Co., Balto., Md.											
25505	M. B. W. Acid Phosphate	Baltimore	.....	.....	.....	.....	1.15	.....	14.39	14.00	13.18	12.60
25653	M. B. W. Acid Phosphate	Federalb'g (O.B.S.)	.....	.....	.....	.....	.50	.....	17 26	16 00	15.63	14.40
25491	M.B.W.Ammoniated Bone & Pot.	Baltimore	1.16	1.00	2.38	2.00	1 65	.....	8.55	8 00	17.94	15.60
25200	M. B. W. Bone Meal..	Hillsboro	2.73	3 00	.....	.....	*20.87	*23.00	.....	.....	23.44	25.80
25303	M. B. W. Caroline Special.....	Baltimore	.84	1.00	4 36	3.00	.50	.....	8 46	9.00	18.07	17.80
25339	M. B. W. Cereal Grower.....	Baltimore	.46	.50	1.94	2 00	.72	.....	7 95	8.00	13.61	13.60
25470	M. B. W. Crop Grower.....	Laurel.....	2 05	2.00	2.60	2.00	.80	.....	10.36	8.00	23.55	19.60
25323	M. B. W. Grain & Tomato Grower	Baltimore	.85	1 00	5 16	5.00	.45	.....	7.85	7.00	18.16	17.40
25240	M. B. W. Phosphate and Potash	Greensboro...	.....	.....	4.69	5.00	.97	.....	11.65	12 00	15.37	15.80
25340	M. B. W. Special Bone Mixture.	Baltimore	.51	.50	3.80	4.00	.57	.....	10 21	10.00	18 32	18.00
25680	M. B. W. Special Bone Mixture.	Centrev'e (W.H.C.)	.77	.50	3.20	4.00	1 05	.....	8.43	10.00	16.82	18.00
25681	M. B. W. Special Bone Mixture.	Centrev'le(W.H.C.)	.68	.50	3.32	4.00	.62	.....	10.63	10.00	19 05	18.00
25324	M. B. W. Special Bone Mixture.	Baltimore	.77	1.00	4.50	5.00	.72	.....	10.32	12.00	20.85	23.40
25413	M. B. W. Special Bone Mixture.	Chestertown	.53	.50	2.90	3.00	.60	.....	9.02	9.00	16.08	15.80
25267	M. B. W. Special Corn & Grass.	Baltimore	.....	.....	2.80	3.00	.62	.....	6.97	6.00	9.19	8.40
	Swift & Co., Baltimore, Md.											
25211	Bone Meal.....	Westover	2.85	3.00	.....	.....	*25.74	*24.00	.....	.....	26.84	26.40
25513	Blood, Bone and Potash	Pocomoke City.....	3.14	4.00	7.32	7.00	1.27	.....	8.10	8.00	30.11	32.60
25140	Champion Wheat & Corn Grower.	Shelltown.....	1.91	2.00	2.39	2.00	.57	1.00	9.70	10.00	21.90	22 40

25015	Corn & Wheat Grower	Baltimore	.92	1.00	4.02	4.00	.67	1.00	8.96	8.00	18.72	18.00
25141	Diamond Fertilizer "C"	Westover	2.12	2.00	4.40	4.00	.57	1.00	8.04	8.00	22.76	22.00
25076	Farmers' Favorite	Hampstead	1.86	2.00	3.24	3.00	.72	1.00	9.34	9.00	22.18	22.20
25482	Garden City Acid Phosphate	Baltimore	.....	.....	.....	.....	.57	1.00	14.73	14.00	13.37	12.80
25483	Golden Grain Grower	Baltimore	1.88	2.00	5.28	5.00	.65	1.00	8.32	8.00	23.04	23.00
25341	Plantation Phos. & Potash	Baltimore	.....	.....	4.10	5.00	.90	1.00	8.74	8.00	12.15	12.40
25342	Prolific Fertilizer	Baltimore	1.16	.50	3.12	2.00	.67	1.00	8.03	8.00	17.67	14.00
25343	Pure Bone Meal	Baltimore	2.76	3.00	.....	.....	*27.13	*24.00	.....	.....	27.32	26.40
25268	Raw Bone Meal	Baltimore	4.71	4.50	.....	.....	*20.87	*23.00	.....	.....	31.36	31.80
25142	Red Steer	Westover	2.06	2.00	2.28	2.00	.72	1.00	8.16	8.00	20.60	20.00
25212	Special H. G. Acid Phosphate	Snow Hill	.....	.....	.....	.....	.60	1.00	16.31	16.00	14.80	14.60
25143	Special H. G. Phos. & Potash	Westover	.....	.....	4.73	5.00	.20	1.00	12.02	12.00	15.59	16.00
25016	Special Potato Fertilizer	Baltimore	1.93	2.00	10.16	10.00	.72	1.00	8.09	8.00	27.88	28.00
25512	Sweet Potato Guano	Baltimore	2.82	3.00	5.44	5.00	1.05	1.00	6.20	6.00	24.58	24.60
25213	Truck Grower	Westover	1.11	1.00	4.12	4.00	.75	1.00	8.13	8.00	18.62	18.00
25459	Wheat Grower Phos. & Potash	Baltimore	.....	.....	3.10	2.00	.57	1.00	10.76	10.00	12.89	11 20
	H. S. Taveau & Co., Balto., Md.											
25492	Dissolved S. C. Bone	Baltimore	.....	.....	.....	.....	.52	.....	14.58	14.00	13.22	12.60
25460	Florida Phosphate	Baltimore	.....	.....	.....	.....	.87	.....	14.78	14.00	13.47	12.60
25493	Special Compound	Baltimore	.....	.....	2.18	2.00	.60	.....	10.26	10.00	11.53	11.00
	D. A. Thomas & Co., Hagerstown, Md.											
25397	Bone Mixture	Hagerstown	1.86	2.00	2.68	2.00	.25	.....	7.67	8.00	19.42	19.60
24959	Dissolved Phosphate	Hancock	.....	.....	.....	.....	.22	.....	16.45	16.00	14.85	14.40
25398	Farmers' Mixture	Hagerstown	.85	1.00	1.68	2.00	.75	.....	7.83	8.00	14.78	15.60
25399	Golden Sheaf	Hagerstown	1.01	1.00	.92	1.00	.72	.....	9.23	8.00	16.33	14.60
24960	Pioneer	Hancock	.....	.....	3.59	5.00	.75	.....	9.58	8.00	12.36	12.20
25400	Planters' Mixture	Hagerstown	1.06	1.00	9.02	6.00	.57	.....	7.91	8.00	22.98	19.60
24961	Potash Special	Hancock	.....	.....	4.49	5.00	.67	.....	11.56	12.00	15.02	15.80
24962	Soluble Phosphate and Potash	Hancock	...	.....	2.19	2.00	.50	.....	9.32	10.00	10.68	11.00
	I. P. Thomas & Son Co., Phila. Pa.											
25461	Potato Fertilizer	Annapolis	1.57	2.00	5.80	6.00	.87	1.00	9.04	9.00	23.28	25.20
25462	Potato Manure	Annapolis	2.88	3.00	6.56	6.00	1.92	1.00	8.78	9.00	29.39	29.20
25385	Special Alkaline Fertilizer	Princess Anne	.....	....	4.04	4.00	.92	.....	10.11	10.00	13.32	13.00
	W. B. Tilghman Co., Salisbury Md.											
25056	Bone Tankage Fertilizer	Salisbury	1.89	2.00	2.46	2.00	.90	.....	10.02	8.00	22.40	19.60
25241	Fish, Bone & Potash	Berlin	.90	1.00	3.53	2.00	.60	.....	9.19	10.00	18.40	18.00
25242	High Grade Acid Phosphate	Berlin	.....	.....	.....	.....	.90	.....	14.77	14.00	13.47	12.60

* Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	W. B. Tilghman Co., Salisbury, Md.											
25214	High Grade Corn Fertilizer	Snow Hill	1.11	1.00	5.46	5.00	.82	.....	9.14	10.00	$21.20	$21.00
25057	High Grade Potato Fertilizer	Salisbury	2.80	3.00	6.62	6.00	1.07	.....	7.60	6.00	27.37	25.20
25 58	Mixture "B"	Salisbury	3.23	4.00	4.29	4.00	1.32	.....	8.15	7.00	27 52	28.40
25059	7% Fertilizer	Salisbury	6.16	7.00	5.22	5.00	3.05	.....	6.02	6.00	38.30	40 20
25060	Special Mixture	Salisbury	.67	33	2.47	2.00	.75	.....	10.71	12.00	18.30	17.72
25061	Standard Fish Mixture	Salisbury	1 52	2 00	2.89	2.00	.75	.....	9.80	8.00	21.03	19 60
25062	Strawberry Special	Salisbury	4.04	5.00	8.34	7.50	1.72	.....	7.87	6 00	34.63	34.70
	Tuscarora Fertilizer Co., Balto., Md											
25373	Alkaline	Trappe	.....	.....	5.20	5.00	.65	.50	9 18	10 00	13.59	14.10
	J. E. Tygert Co., Phila., Pa.											
25463	Big Crop Grower	Baltimore	.....	.....	5.46	5.00	.45	.....	8.02	8.00	12 77	12.20
	J. Tyson & Son, Frederick, Md.											
24969	Ammoniated Super Phosphate	Monrovia	1 14	1 00	3 03	3.00	.90	.....	8 44	8.00	18 08	16.60
25673	Ammoniated Super Phosphate	Middletown (M.F.A.)	1.52	1 00	2.84	3 00	.97	.....	8.23	8 00	19.19	16.60
24963	Half & Half Super Phosphate	Monrovia	1.31	1 00	1 24	1 00	.87	.....	8 60	8 00	17 15	14 60
25401	Reliable Crop Grower	Frederick	1.26	1.25	2.64	2.00	.95	.....	8 41	9 00	18.15	17.80
25235	Special Mixture	Woodbine	1.02	.50	1 36	1 00	.52	.....	8.52	8 00	15.87	12 60
25402	XX High Grade Fertilizer	Frederick	1.74	2 00	3 36	3.00	.75	.....	8.06	8.00	20 29	20.60
	United States Fertilizer Co., Balto., Md.											
25077	Farm Bell Acid Phosphate	Middleburg	.....	.....	.....	.....	.40	1.00	16 10	14.00	14 57	12 80
25017	Farm Bell Acid Phosphate	Baltimore	.....	.....	.....	.....	.55	1.00	15.55	16 00	14 11	14.60

25304	Farm Bell Alkaline Mixture	Baltimore	.....	.....	2 14	2.00	.27	1.00	11.17	10.00	12.24	11.20
25325	Farm Bell Animal Ammoniated.	Baltimore	2 05	2.00	5 90	5 00	1.07	1.00	8 27	8.00	24.45	23.00
25502	Farm Bell Buckeye Guano	Baltimore	1.25	1.00	2 36	2.00	.62	1 00	9.77	9.00	19.33	17.20
25305	Farm Bell Grain Grower	Baltimore	.72	50	2.22	2.00	.57	1.00	9.49	8.00	16 72	14.00
25471	Farm Bell Klimax Kompound...	Baltimore	1.11	1.00	4 62	4.00	2.35	1 00	7.17	7.00	18 60	16.80
25125	Farm Bell Pennant Winner.	Dayton.....	1 16	1.00	5.62	4.00	.47	1 00	8 38	8 00	20 51	18 00
25472	Farm Bell Phosphate and Pot...	Baltimore	.....	.....	5 38	5 00	.30	1.00	8 34	8.00	12 95	12.40
25345	Farm Bell Phospho—Potasso.....	Baltimore	.....	.....	5.42	5.00	.37	1.00	12.86	12.00	17.06	16.00
25506	Farm Bell Raw Bone	Baltimore	4.40	4.50	.....	.....	*21.68	*21.50	.....	.....	30.61	30.90
25284	Farm Bell Standard Guano.....	Bel Air.....	2.04	2.00	2 92	2 00	.80	.....	8 27	8 00	21.32	19.60
25473	Farm Bell Ten and Five Mixture	Baltimore		.....	5.02	5.00	.27	1 00	9.10	10.00	13.26	14 20
25474	Farm Bell Wht., Oat & Corn Sp'cl	Baltimore	1.09	1 00	6.48	6 00	.27	1 00	8 08	8.00	20 65	20 00
25124	Thomas' Crop Grower	Barnesville.....	1.23	1.00	1.81	1.00	1.42	.....	8.22	8.00	17 16	14.60
	E. S. Valliant & Son, Church Hill,	**Md.**										
25269	Ammoniated Potash Mixture....	Baltimore	41	.25	2.70	2.00	.67	.....	11 63	10.00	18 57	15 00
24918	Favorite Brand.....	Baltimore	2.08	2 00	5.28	5 00	.37	.....	9 19	8 00	24.78	22.60
24919	Grain Grower.....	Baltimore	.75	.50	1 77	2 00	.85	1.00	7.63	8.00	14 27	14 00
24920	Ideal Fertilizer.....	Baltimore	1.08	1.00	2.57	2.00	1.17	.....	8.52	9 00	17 58	16 80
25414	1-9-5 Fertilizer	Chestertown.....	1.04	1.00	5 44	5.00	1 12	.....	9.11	9 00	20 98	19.80
24921	Phosphate & Potash 12 & 5	Baltimore	.....	.....	5 18	5 00	1 02	.....	11.36	12.00	15 60	15.80
25308	Phosphate & Potash.....	Baltimore	.....	.....	7.88	8 00	1.00	.....	9.47	10.00	16 60	17 00
25188	Standard Fertilizer.....	Secretary	.78	1.00	4.77	4 00	1.00	.....	9.36	9.00	19 52	18 80
25507	Standard Fertilizer.....	Chestertown.....	1 01	1.00	4 92	4.00	1.22	.....	8.92	9.00	20.15	18.80
25664	Standard Fertilizer.....	Vienna (J.W.M.) ...	1.14	1.00	5.03	4.00	.97	.....	8.79	9 00	20 53	18 80
25326	10 & 5 Fertilizer.....	Baltimore	.....	.....	5.22	5.00	.85	.....	10 23	10.00	14.60	14.00
	Virginia-Carolina Chemical Co., Ri	**chmond, Va.**										
25306	Corn and Buckwheat Special...	Baltimore	.....	.....	2.96	3.00	1 17	1.00	5.89	6.00	8 49	8.60
25044	Crop Producer.....	Ladiesburg.....	.....	.....	2 01	2.00	1 85	1.00	8 54	9.00	10.07	10 30
25439	Double Bone and Potash.....	Baltimore	.....	.....	4 62	4.00	1 07	1.00	7 30	8.00	11 40	11.40
24964	Fish, Bone and Potash.....	Hancock.....	2.01	2.00	2 61	3.00	2.30	.. ...	9 21	8.00	22.62	20 60
25270	High Grade Bone and Potash	Baltimore	.....	.. ...	5.12	5.00	1.72	1.00	12 39	12 00	16.61	16 00
25045	National Ammoniated Guano...	Ladiesburg.... ...	1.25	1.00	4.36	4.00	2.57	1 00	7.52	8.00	19 41	18 00
24965	Peerless Bone and Potash.....	Hancock.....	.....	.....	2.04	2.00	95	.....	7.74	8.00	9.20	9 20
24966	Special Compound	Hancock.....	1.15	1.00	1 13	1 00	1 80	.....	7.40	8 00	15 33	14.60
25046	Special Bone and Potash.....	Ladiesburg.....	.....	.....	5.08	5.00	2 02	1.00	9.90	10.00	14.39	14.20
24967	Special Potash Mixture	Hancock.....	.....	.....	4 85	5 00	1.07	.....	7.54	8.00	11 85	12.20
25047	Standard Bone and Potash.....	Ladiesburg.....	.....	.....	2.28	2.00	2.12	1.00	9.85	10.00	11.57	11.20

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	S. L. Webster & Son, Cambridge,	**Md.**										
25189	Ammoniated Bone Fert. No. 1..	Cambridge	2.39	2.50	3.03	3.00	4.90	.....	8.09	9.00	$24.26	$23.80
25190	Ammoniated Bone Fert. No. 2..	Cambridge	2.13	2 00	3.06	3.00	1.02	.....	11.16	7.00	25.38	19.40
25191	Bone & Potash	Cambridge	.....	. ....	2.06	2.00	52	.....	12.71	10.00	13.60	11.00
25192	Bone & Potash	Cambridge	.....	.....	5.63	5.00	.45	.....	12.75	10.00	17.20	14.00
25193	Old Dorset Ammon. Bone Fert .	Cambridge	1.11	1.00	3.86	4.00	.70	.....	10.09	8.00	20.69	17.60
	Westminster Fertilizer Co., Westm	**inster, Md.**										
25078	Governor	Westminster	1.67	1.50	3.01	2.50	1.02	.....	9.77	9.00	21.82	19.30
25082	Leader	Westminster	1.01	1.00	1.54	1.50	1.20	.....	8.01	8.00	15.67	15.10
25083	Super—A	Westminster	.78	.75	1.21	1.00	.87	.....	8.10	8.00	14.40	13.60
	H. W. Whistler, Fountain Green,	**Md.**										
25285	Pure Ground Bone	Bel Air.....	1.95	2.00	.....	.....	*15.37	*23.00	.....	.....	17.02	21.80
	F. M. Wilson & Co., Pocomoke Ci	**ty, Md.**										
24974	Peninsula Amm'd Super-Phos ...	Pocomoke City	1.09	1.50	2.77	2.00	1.02	.....	11.52	10.00	21.36	20.00
	R. A. Wooldridge Co., Balto., Md.											
25403	Ammoniated Phosphate.....	Boonsboro	1.11	1.00	1.08	1.00	1.22	.....	8.02	8.00	15.63	14.60
25327	Champion Giant Phosphate.....	Baltimore	1.19	1.00	2.70	2.00	1.17	.....	10.10	9.00	20.05	16.80
25404	Chieftain Phosphate	Boonsboro.....	2.03	2.00	2.32	2.00	1.42	.....	8 17	8.00	20.81	19 60
25405	Farmers' Favorite Cereal Comp.	Boonsboro.....	.56	.50	2.14	2.00	1.07	.....	7.02	7.00	13.23	12.40
25346	Florida Acid Phosphate.....	Baltimore	.....	.....	.....	.....	.60	.....	14.78	14.00	13.42	12.60
25374	German Potash Mixture	Trappe.....	.....	.....	2.26	2.00	.32	.....	10.02	10.00	11.34	11.00

25229	High Grade Acid Phosphate	Butler	.....	.....	.....	.....	.97	.....	16.04	16.00	14.63	14.40
25230	Ideal Grain & Grass Producer	Butler	.....	.....	3.89	4.00	.70	.....	10.74	10.00	13.70	13.00
25271	Liberty Bell Potash Mixture	Baltimore	.....	.....	3.16	3.00	.67	.....	11.83	12.00	13.94	13.80
25347	No. 1 Phosphate and Potash	Baltimore	.....	.....	2.84	3.00	.50	.....	6.05	6.00	8 39	8.40
25215	No. 2 Phosphate and Potash	Pocomoke City	.....	.....	5.48	5.00	.65	.....	8.61	8 00	13.36	12.20
25028	Old Sledge Phosphate	Baltimore	.....	.....	5.12	5.00	.17	.....	12.85	12 00	16.72	15.80
24941	Pure Raw Bone	Baltimore	3.82	4.50	.....	.....	*21 28	*21.50	.....	.....	28 05	30.90
25201	Special Potato & Tobacco Fert	Perryman	2.05	2 00	4.92	5.00	1.12	.....	9.66	9.00	25.16	23.80
25202	Sweep Stakes Sure Shot Tr. Phos	Perryman	3.12	3.00	8.01	8.00	1.50	.....	8.40	7 00	31.17	28.40
25181	Triumph Brand Phosphate	Pocomoke City	1.60	1.50	4.44	4.00	1.20	.....	8.36	8.00	21.35	19.60
	Wooldridge Fertilizer Co., Balto., Md.											
25073	Clover Leaf Crop Grower	Germantown	.68	.50	2.19	2.00	.77	.50	8.22	8.00	15.08	13 80
25464	Old Hickory Phosphate	Baltimore	1.38	1.25	2.26	2.00	1.22	.50	8.01	8.00	17.88	16.80
24922	Orchilla Guano	Baltimore	.....	.....	.....	.....	11.80	12.00	8.84	8.00	10 32	9.60
25368	Tiger Bone Stock Phosphate	Baltimore	1.26	1.25	5.12	4.50	1.17	.....	8.41	8.00	20.72	19.10
	York Chemical Works, York, Pa.											
24993	Dempwolf's Dissolved Phos	Baldwin	.....	.....	.....	.....	.52	.....	14.54	14 00	13.19	12.60
25381	Dempwolf's Harvest Queen	Manchester	1.18	1.00	2.08	2.00	1.05	.....	8.37	8.00	17.26	15.60
24994	Dempwolf's Plow Brand	Baldwin	1.77	2.00	2.31	2.00	.87	.....	7 82	8 00	19.12	19.60
25048	Dempwolf's Standard Pot. Fert.	Walkersville	1.21	1.00	4.17	4.00	.67	.....	7.92	8.00	18.78	17 60
24995	Dempwolf's Standard	Baldwin	1.81	2.00	5.60	5.00	.67	.....	7.65	8.00	22.29	22.60

*Total Phosphoric Acid.

EXTRACTS FROM THE

FERTILIZER LAW OF MARYLAND.

(The law was printed in full in Quarterly No. 57, August, 1912. Copies of the law will be sent on request.)

Section 1. That the term "Fertilizer" as used in that Act shall be held to mean any commercial fertilizer or any article, substance or mixture sold, offered or exposed for sale for manurial purposes within this State, of which the selling price shall be more than Eight Dollars ($8.00) per ton of two thousand pounds, * * * * * *

Sec. 2. Before any fertilizers is sold, offered, or exposed for sale within the State the following conditions must be complied with: (A), The importer, manufacturer, manipulator, dealer or agent shall register with the State Chemist, the brands of fertilizers contemplated to be sold, and pay an inspection fee of ten dollars ($10.00) per brand, and at the close of the calendar year shall file a statement with the State Chemist, made under oath in due form of law, as to the total number of tons of fertilizers sold in this State, and shall pay thereon ten cents per ton not including in said statement the goods sold in bulk to manufacturers, manipulators or mixers; deducting the total amount of the inspection fees paid in the registration of the brands of fertilizers, as already provided for in this section, and no other license shall be required to sell fertilizers in this State, provided, when any manufacturer, dealer or importer has paid the required inspection fees, no other person selling the same goods under his name and brand shall be required to pay such fee. (B), Every bag, barrel, or package of fertilizer, and every parcel or lot, if sold in bulk, must bear in legible print, or be accompanied by a clear and true statement showing the net pounds in the package or lot, the name, brand, or trademark, under which the fertilizer is sold, the name and address of the manufacturer, importer or manipulator, the place of manufacture or manipulation, and a chemical analysis stating the percentage of the minimum, and only the minimum contained therein, of nitrogen, in an available form, or its equivalent in ammonia, of potash soluble in distilled water, and of available phosphoric acid; in lieu of the available phosphoric acid the soluble phosphoric acid and the reverted phosphoric acid may be given; it shall be lawful to state the maximum percentage of chlorine and the minimum of insoluble phosphoric acid; in case of unacidulated bone, tankage, fish or other animal or vegetable matter used as fertilizer, it shall be lawful to guarantee the phosphoric acid as total phosphoric acid, but it shall be unlawful to include the same constituents more than once in the guaranteed analysis of any fertilizer, either in the same form of combination or in a different form of combination.

Sec. 3. * * * * * * * * * *

Sec. 4. It shall be unlawful to sell or offer for sale, unless the same be plainly marked "low grade." Any acid-phosphate or dissolved Rock containing less than fourteen (14) per cent of available phosphoric acid, (b) any phosphate and potash with less than two per cent of potash and with less than twelve per cent of potash and available phosphoric acid combined, (c) any ammoniated fertilizer with less than one per cent of ammonia, or its equivalent in nitrogen, or less than one per cent of potash, if potash is claimed to be present, and less than ten per cent of ammonia, potash and phosphoric acid combined; any failure to comply with any of the provisions of this section shall be punishable by a fine of twenty-five dollars ($25.00) for the first offense and one hundred dollars ($100.00) for each subsequent offense.

Sec. 5. It shall be the duty of the Maryland Agricultural College to analyze without cost or charge all samples of fertilizers sent to it for the purpose of being analyzed by any person or persons purchasing or pro-

curing the same in this State for his or their use or uses, provided such persons are not interested in the analysis desired other than as a consumer, of which certificate shall be made and shall accompany such sample or samples, and further, such samples are taken and sent as described by this Act and free of cost of transportation to said College. * * *

Sec. 6. All samples of fertilizers for analysis, at the Maryland Agricultural College, shall be taken from unbroken packages or bags that have not been damaged or injured in transit or by exposure, and when in the possession of the purchaser or purchasers within thirty (30) days after coming into their possession, it shall be lawful for any purchaser or purchasers of any fertilizer or fertilizers, provided that he be not a manufacturer, manipulator or agent of either, to have a sample taken from any such unbroken packages or bags in the presence of two disinterested persons and forward to the Maryland Agricultural College for analysis, accompanied by a statement on the department forms, certifying that the sample has been correctly drawn according to the provisions of this Act, * * * * * * * * * * *

nor shall the Agricultural College, nor its chemists nor its agent or agents, or the sender of any sample, furnish any information or communicate with any manufacturer of fertilizer about any such sample submitted for analysis until after a report of said analysis shall have been duly furnished to the applicant for such analysis under this section; * * *

Sec. 7. Any manufacturer, agent or representative who shall be convicted of making false and fraudulent representations as to the quality and constituent elements of any fertilizers by the printed analysis or false or misleading statement upon any such bag or package shall be fined one hundred dollars ($100.00) for the first offense, and two hundred dollars (200.00) for every subsequent offense, thereafter; and the report of the analysis of any such sample of fertilizer sent to the Agricultural College for examination under this Act shall be prima-facie evidence as to the quality of the lot of fertilizer, from which said sample was taken. * *

Sec. 9. Any purchaser of fertilizer who shall be injured or defrauded by the contents of the bag, barrel, or other package, or fertilizer in bulk, not conforming in quantity or quality to the marks, labels, or statements on or accompanying the same, or who shall purchase fertilizer branded, "pure bone" when the same is adulterated with oyster shell or other foreign matter, even if the analysis corresponds to the guaranteed analysis on the package, may receive from the seller or sellers thereof in an action of debt, an amount equal to the purchase money and cost of suit, * * provided, the purchaser of any fertilizer, shall not be deemed to be defrauded by a shortage in one or two of the constituents of said fertilizers, not to exceed one-fifth of the amount guaranteed, if the shortage is accompanied by an excess of other constituent or constituents of double the commercial value, and provided further, that if the shortage does not exceed 20 per cent of the amount guaranteed, otherwise, the purchaser may receive as damage twice the amount of the value of such shortage.

Sec. 10. * * * * * * * * * *

Sec. 11. This act shall not apply to substances and materials sold in bulk to manufacturers or manipulators of fertilizers, nor shall it be required to be registered with the State Chemist as required in Section 2 (A), any formula mixed after the formula furnished by the consumer; provided, in lieu of such registration, all such packages of fertilizers shall be plainly marked or tagged with the words "Mixed to Order," and be accompanied by a statement giving the guaranteed analysis and in all other particulars conform to this Act.

Sec. 12. * * * * * * * * * *

Sec. 13. * * * * * * * * * *

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